PROJECT 3: SQL Jeopardy
    Mark out of ten points (GYRB)
    Each query is all or nothing
    Provide GYRB signature in grade spreadsheet

    HELPER FILES
        yrb-create : create script standard for YRB
        yrb-drop   : drops the YRB tables

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-- ================================================================
-- York River Books, Inc., Book Vendor Database

-- Creation script
-- Parke Godfrey, Copyright 2005


-- ----------------------------------------------------------------
-- Schema definition

create table yrb_customer (
    cid    smallint   not null,
    name   varchar(20),
    city   varchar(15),
    constraint yrb_customer_pk
        primary key (cid)
);

create table yrb_club (
    club varchar(15) not null,
    desc varchar(50),
    constraint yrb_club_pk
        primary key (club)
);

create table yrb_member (
    club   varchar(15)   not null,
    cid    smallint      not null,
    constraint yrb_member_pk
        primary key (club, cid),
    constraint yrb_mem_fk_club
        foreign key (club) references yrb_club,
    constraint yrb_mem_fk_cust
        foreign key (cid) references yrb_customer
);

create table yrb_category (
    cat varchar(10) not null,
    constraint yrb_category_pk
        primary key (cat)
);

create table yrb_book (
    title     varchar(25)   not null,
    year      smallint      not null,
    language  varchar(10),
    cat       varchar(10)   not null,
    weight    smallint      not null,
    constraint yrb_book_pk
        primary key (title, year),
    constraint yrb_book_fk_cat
        foreign key (cat) references yrb_category,
    constraint yrb_book_weight
        check (weight > 0)
);

create table yrb_offer (
    club    varchar(15)   not null,
    title   varchar(25)   not null,
    year    smallint      not null,
    price   decimal(5,2) not null,
    constraint yrb_off_pk
        primary key (club, title, year),
    constraint yrb_off_fk_club
        foreign key (club) references yrb_club,
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    constraint yrb_off_fk_book
        foreign key (title, year) references yrb_book,
    constraint yrb_off_price
        check (price > 0)
);

create table yrb_purchase (
    cid     smallint     not null,
    club    varchar(15)  not null,
    title   varchar(25)  not null,
    year    smallint     not null,
    when    timestamp    not null,
    qnty    smallint     not null,
    constraint yrb_pur_pk
        primary key (cid, club, title, year, when),
    constraint yrb_pur_fk_offer
        foreign key (club, title, year) references yrb_offer,
    constraint yrb_pur_fk_mem
        foreign key (club, cid) references yrb_member,
    constraint yrb_pur_qnty
        check (qnty > 0)
);

-- A prettier way to view the PURCHASE table.
create view pretty_purchase as
    (select cast (cid as decimal(2)) as cid,
            title,
            club,
            year,
            cast (when as date) as day,
            cast (when as time) as time
        from yrb_purchase);

create table yrb_shipping (
    weight  smallint     not null,
    cost    decimal(5,2) not null,
    constraint yrb_shipping_pk
        primary key (weight),
    constraint yrb_ship_uni_cost
        unique (cost)
);

-- ------------------------------------------------------------------------
-- Populate with some toy data.

insert into yrb_customer (cid, name, city) values
    (1,'Tracy Turnip','Toronto'),
    (2,'Qfwfq','Pluto'),
    (3,'Fuzzy Fowles','Orilla'),
    (4,'Suzy Sedwick','Ottawa'),
    (5,'Andy Aardverk','Oshawa'),
    (6,'Boswell Biddles','Waterloo'),
    (7,'Cary Cizek','Toronto'),
    (8,'Jack Daniels','Windsor'),
    (9,'Doris Daniels','Windsor'),
    (10,'Egbert Engles','Pembroke'),
    (11,'Sally Mae','Toronto'),
    (12,'Fanny Mae','Mississauga'),
    (13,'Garp Google','Ottawa'),
    (14,'Kathy Lee Gifford','Cornwall'),
    (15,'Henrietta Hogg','Parry Sound'),
    (16,'Ingrid Iverson','Oshawa'),
    (17,'George Gush','Timmins'),
    (18,'Al Bore','Niagara Falls'),
    (19,'Ekksdwl Qjksynn','Pluto'),
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    (20,'Finwick Cooper','Guelph'),
    (21,'Jackie Johassen','Bancroft'),
    (22,'Klive Kittlehart','Parry Sound'),
    (23,'Lux Luthor','Lakehead'),
    (24,'Clark Kent','Lakehead'),
    (25,'Margaret Mitchie','Toronto'),
    (26,'George Wolf','Mississauga'),
    (27,'Jorge Lobo','Mississauga'),
    (28,'Phil Regis','Lakehead'),
    (29,'Nigel Nerd','Toronto'),
    (30,'Pretence Parker','Orilla'),
    (31,'Parker Posey','Toronto'),
    (32,'Mark Dogfurry','Toronto'),
    (33,'Oswell Orson','Oshawa'),
    (34,'Quency Quark','Sarnia'),
    (35,'Renee Riztp','Bancroft'),
    (36,'Steve Songheim','Waterloo'),
    (37,'Trixie Trudeau','Waterloo'),
    (38,'Ulya Umbrigde','Ottawa'),
    (39,'Valerie Vixen','Pembroke'),
    (40,'Walter Wynn','Kingston'),
    (41,'Xia Xu','Toronto'),
    (42,'Yves Yonge','Ottawa'),
    (43,'Zachary Zoxx','London'),
    (44,'Zebulon Zilio','Georgetown'),
    (45,'Jack Daniels','London');

insert into yrb_club (club, desc) values
    ('CARP',          'Association of Canadian Retired Persons'),
    ('CAA',           'Canadian Automobile Association'),
    ('Guelph Club',   'University club for the University of Guelph'),
    ('York Club',     'University club for York University'),
    ('UofT Club',     'University club for the Univeristy of Toronto'),
    ('Waterloo Club', 'University club for the University of Waterloo'),
    ('Readers Digest', 'The Readers Digest club'),
    ('Oprah',         'The Oprah Winfrey book club'),
    ('Basic',         'Our basic club'),
    ('YRB Gold',      'Our gold club'),
    ('YRB Silver',    'Our silver club'),
    ('YRB Bronze',    'Our bronze club');

insert into yrb_member (club, cid) values
    ('Basic',1),
    ('Basic',2),
    ('Basic',3),
    ('Basic',4),
    ('Basic',5),
    ('Basic',6),
    ('Basic',7),
    ('Basic',8),
    ('Basic',9),
    ('Basic',10),
    ('Basic',11),
    ('Basic',12),
    ('Basic',13),
    ('Basic',14),
    ('Basic',15),
    ('Basic',16),
    ('Basic',17),
    ('Basic',18),
    ('Basic',19),
    ('Basic',20),
    ('Basic',21),
    ('Basic',22),
    ('Basic',23),
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        ('Basic',24),
        ('Basic',25),
        ('Basic',26),
        ('Basic',27),
        ('Basic',28),
        ('Basic',29),
        ('Basic',30),
        ('Basic',32),
        ('Basic',33),
        ('Basic',35),
        ('Basic',36),
        ('Basic',37),
        ('Basic',38),
        ('Basic',39),
        ('Basic',40),
        ('Basic',41),
        ('Basic',42),
        ('Basic',43),
        ('Basic',44),
        ('Basic',45),
        ('CAA',2),
        ('CAA',3),
        ('CAA',6),
        ('CAA',8),
        ('CAA',9),
        ('CAA',12),
        ('CAA',16),
        ('CAA',19),
        ('CAA',21),
        ('CAA',26),
        ('CAA',27),
        ('CAA',29),
        ('CAA',32),
        ('CAA',34),
        ('CAA',37),
        ('CAA',39),
        ('CAA',41),
        ('CAA',44),
        ('CARP',3),
        ('CARP',5),
        ('CARP',10),
        ('CARP',15),
        ('CARP',25),
        ('CARP',33),
        ('CARP',36),
        ('Waterloo Club',4),
        ('Waterloo Club',9),
        ('Waterloo Club',13),
        ('Waterloo Club',21),
        ('Waterloo Club',33),
        ('Waterloo Club',36),
        ('Waterloo Club',38),
        ('Waterloo Club',40),
        ('Waterloo Club',42),
        ('Oprah',2),
        ('Oprah',4),
        ('Oprah',8),
        ('Oprah',9),
        ('Oprah',10),
        ('Oprah',12),
        ('Oprah',13),
        ('Oprah',14),
        ('Oprah',19),
        ('Oprah',20),
        ('Oprah',23),
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('Oprah',28),
('Oprah',32),
('Oprah',33),
('Oprah',37),
('Oprah',38),
('Oprah',45),
('Readers Digest',1),
('Readers Digest',6),
('Readers Digest',13),
('Readers Digest',20),
('Readers Digest',22),
('Readers Digest',24),
('Readers Digest',30),
('Readers Digest',35),
('Readers Digest',39),
('Readers Digest',42),
('Readers Digest',44),
('YRB Bronze',3),
('YRB Bronze',5),
('YRB Bronze',8),
('YRB Bronze',22),
('YRB Bronze',25),
('YRB Bronze',29),
('YRB Bronze',34),
('YRB Bronze',35),
('YRB Bronze',39),
('YRB Gold',2),
('YRB Gold',7),
('YRB Gold',15),
('YRB Gold',19),
('YRB Gold',22),
('YRB Gold',28),
('YRB Gold',32),
('YRB Gold',43),
('YRB Gold',44),
('YRB Silver',1),
('YRB Silver',4),
('YRB Silver',9),
('YRB Silver',10),
('YRB Silver',11),
('YRB Silver',13),
('YRB Silver',16),
('YRB Silver',21),
('YRB Silver',26),
('YRB Silver',27),
('YRB Silver',30),
('YRB Silver',36),
('YRB Silver',38),
('Guelph Club',3),
('Guelph Club',10),
('Guelph Club',16),
('Guelph Club',22),
('Guelph Club',30),
('Guelph Club',36),
('Guelph Club',39),
('UofT Club',29),
('UofT Club',34),
('UofT Club',35),
('UofT Club',44),
('York Club',1),
('York Club',7),
('York Club',16),
('York Club',25),
('York Club',26),
('York Club',27),
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    ('York Club',32),
    ('York Club',37),
    ('York Club',42),
    ('York Club',45);

insert into yrb_category (cat) values
    ('children'),
    ('cooking'),
    ('drama'),
    ('guide'),
    ('history'),
    ('horror'),
    ('humor'),
    ('mystery'),
    ('phil'),
    ('romance'),
    ('science'),
    ('travel');

insert into yrb_book (title, year, language, cat, weight) values
    ('Toronto Underground',2001,'English','travel',167),
    ('Tensor Calculus made Easy',1996,'English','science',582),
    ('The Vampires Among Us',1999,'English','horror',192),
    ('Plato Rocks',1975,'Greek','phil',467),
    ('Will Snoopy find Lucy?',1990,'English','mystery',161),
    ('Les Gens Miserable',1996,'French','romance',180),
    ('Tampopo Oishii',1997,'Japanese','romance',238),
    ('Tande mou nai',2002,'Japanese','humor',1171),
    ('Flibber Gibber',2004,'English','drama',51),
    ('La Petite Chou',2001,'French','children',160),
    ('Napolean''s Revenge',1952,'English','history',1479),
    ('Pluto Collides With Mars',2004,'Plutonian','science',428),
    ('Quarks and Other Matter',2000,'English','science',823),
    ('Oberon',1963,'Greek','drama',237),
    ('Yakuza Kekkon Shita',1996,'Japanese','romance',356),
    ('Suzy does Waterloo',2001,'English','travel',201),
    ('Bancroft''s Great!',2003,'English','travel',276),
    ('Yon-juu Hachi',1948,'Japanese','drama',459),
    ('Transmorgifacation',2004,'Plutonian','science',2911),
    ('Oui, Oui, Non!',1992,'French','romance',393),
    ('Rats Like Us',1999,'English','humor',187),
    ('Rats Like Us',1997,'English','science',880),
    ('Alpha Centauri',2002,'Plutonian','travel',461),
    ('Where''s Canada?',1998,'English','travel',262),
    ('Ou est Ce Canada?',1998,'French','travel',250),
    ('Learn How To Vote',2004,'English','guide',153),
    ('Voting for Dummies',2004,'English','guide',251),
    ('Capricia''s Conundrum',1993,'English','romance',159),
    ('Databases aren''t',2004,'English','phil',491),
    ('Databases made Real Hard',2002,'English','science',363),
    ('Montreal est dans Quebec',1999,'French','travel',227),
    ('Tchuss',2002,'German','drama',265),
    ('Nippon no Joodan',2001,'Japanese','humor',352),
    ('Recipes for Humans',2004,'Plutonian','cooking',705),
    ('Vegetables are Good!',2003,'English','children',231),
    ('Vegetables are Good!',1992,'English','cooking',292),
    ('Tampopo Oishii',1999,'Japanese','cooking',276),
    ('I''m Sorry, But No',2003,'English','romance',112),
    ('Radiator Barbecuing',2002,'English','cooking',154),
    ('Please Beam Me Up',2004,'Plutonian','drama',250),
    ('Eigen Eigen',1980,'German','science',659),
    ('Play me a Song',1997,'English','romance',248),
    ('Food for Dummies',2004,'English','cooking',234),
    ('Ringo to Nashi',1997,'Japanese','cooking',334),
    ('Aubergines!',2000,'French','cooking',296),
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    ('Nothing but Steak',1995,'English','cooking',338),
    ('SQL Kills!',2003,'English','science',425),
    ('Curiouser and Curiouser',1953,'English','children',308),
    ('Dogs are not Cats',1995,'English','science',340),
    ('Je ne me souvien pas',1997,'French','romance',129),
    ('Okay, Why Not?',2001,'English','romance',197),
    ('Math is fun!',1993,'English','science',590),
    ('Math is fun!',1995,'English','humor',166),
    ('Is Math is fun?',1996,'English','phil',752),
    ('The Stars are not Enough',2002,'English','romance',248),
    ('Bobbie Sue Ellen',1999,'English','drama',247),
    ('Akachan Furu',2003,'Japanese','children',244),
    ('Darmstadt',2004,'German','travel',295),
    ('Been There Done That',2002,'English','romance',91),
    ('Acrimony Made Simple',1996,'English','guide',260),
    ('Tomenatte Kudasai!',2000,'Japanese','romance',342),
    ('Parthenon',2004,'Greek','travel',313),
    ('Where are my Socks?',1998,'English','humor',259),
    ('The Earth is not Enough',2003,'Plutonian','drama',393),
    ('Legacy Software made Fun',2004,'English','guide',557),
    ('Brats like Us',1999,'English','drama',338),
    ('Where are my Socks?',1994,'English','mystery',261),
    ('Yum, Yum, English Cooking',1997,'English','cooking',57),
    ('Cuisine Anglaise!?',1997,'French','cooking',49),
    ('Where art thou Bertha?',2003,'English','romance',289),
    ('Rigor Mortis',1023,'Latin','mystery',244),
    ('Meine Kleine Katze',2002,'German','romance',183),
    ('Pigs are nice',1996,'English','children',144),
    ('Getting into Snork U.',2004,'English','guide',222),
    ('Are my feet too big?',1993,'English','romance',147),
    ('Live in London?!',2002,'English','travel',71),
    ('Not That London!',2003,'English','travel',132),
    ('Rabbits are nice',1996,'English','children',119),
    ('Rabbits are nice',2004,'English','cooking',186),
    ('Under Your Bed',2004,'English','mystery',147),
    ('Strike Once, Strike Twice',2004,'English','guide',198),
    ('Cats are not Dogs',1996,'English','science',353),
    ('Chats ne sont pas Chiens',1996,'French','science',328),
    ('The Fickle Pickle',2004,'English','cooking',285),
    ('I don''t think so',2001,'English','romance',139),
    ('Quantum Databases',2003,'English','science',731),
    ('Are my feet too big?',1997,'English','guide',128),
    ('Tsukimono to Tsukemono',2004,'Japanese','romance',79),
    ('Tropical Windsor',2004,'English','travel',185),
    ('Montreal pour les Idiots',2002,'French','travel',344),
    ('Base de Donne',2003,'French','guide',251),
    ('The Wiley Snark',1980,'English','mystery',187),
    ('Press the Red Button!',2003,'Plutonian','drama',564),
    ('Relational Algebra',2004,'English','humor',144),
    ('Ottawa Hot Spots',2002,'English','travel',169),
    ('Gigabytes still to go',2001,'English','drama',227),
    ('DB2, DB3, and Beyond!',2004,'English','guide',429),
    ('DB2 Made Simple',2003,'Greek','guide',1142),
    ('Avarice is Good',1998,'English','guide',2198),
    ('Humor in SQL',2004,'English','humor',292);

insert into yrb_offer (title, year, club, price) values
    ('Toronto Underground',2001,'Basic',15.95),
    ('Toronto Underground',2001,'YRB Bronze',15.45),
    ('Toronto Underground',2001,'York Club',12.95),
    ('Toronto Underground',2001,'UofT Club',12.95),
    ('Toronto Underground',2001,'CAA',13.95),
    ('Toronto Underground',2001,'CARP',14.95),
    ('Toronto Underground',2001,'YRB Silver',14.95),
    ('Toronto Underground',2001,'YRB Gold',14.45),
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('Tensor Calculus made Easy',1996,'Basic',59.95),
('Tensor Calculus made Easy',1996,'YRB Bronze',56.95),
('Tensor Calculus made Easy',1996,'York Club',49.95),
('Tensor Calculus made Easy',1996,'UofT Club',54.95),
('Tensor Calculus made Easy',1996,'Waterloo Club',54.95),
('Tensor Calculus made Easy',1996,'YRB Silver',53.95),
('Tensor Calculus made Easy',1996,'Guelph Club',51.95),
('Tensor Calculus made Easy',1996,'YRB Gold',50.95),
('The Vampires Among Us',1999,'Basic',19.95),
('The Vampires Among Us',1999,'YRB Bronze',18.95),
('The Vampires Among Us',1999,'UofT Club',18.95),
('The Vampires Among Us',1999,'Readers Digest',17.95),
('The Vampires Among Us',1999,'CARP',19.95),
('The Vampires Among Us',1999,'YRB Silver',17.95),
('The Vampires Among Us',1999,'YRB Gold',16.95),
('The Vampires Among Us',1999,'Oprah',16.95),
('The Vampires Among Us',1999,'York Club',18.95),
('The Vampires Among Us',1999,'Guelph Club',18.95),
('Plato Rocks',1975,'Basic',39.95),
('Plato Rocks',1975,'YRB Bronze',38.95),
('Plato Rocks',1975,'York Club',35.95),
('Plato Rocks',1975,'UofT Club',34.95),
('Plato Rocks',1975,'Waterloo Club',36.95),
('Plato Rocks',1975,'CARP',36.95),
('Plato Rocks',1975,'YRB Silver',37.95),
('Plato Rocks',1975,'Guelph Club',35.95),
('Plato Rocks',1975,'YRB Gold',36.95),
('Will Snoopy find Lucy?',1990,'Basic',15.95),
('Will Snoopy find Lucy?',1990,'YRB Bronze',14.95),
('Will Snoopy find Lucy?',1990,'UofT Club',14.45),
('Will Snoopy find Lucy?',1990,'CAA',14.95),
('Will Snoopy find Lucy?',1990,'Readers Digest',13.95),
('Will Snoopy find Lucy?',1990,'CARP',12.95),
('Will Snoopy find Lucy?',1990,'YRB Silver',13.95),
('Will Snoopy find Lucy?',1990,'YRB Gold',12.95),
('Will Snoopy find Lucy?',1990,'Oprah',14.95),
('Will Snoopy find Lucy?',1990,'York Club',14.45),
('Will Snoopy find Lucy?',1990,'Waterloo Club',14.95),
('Will Snoopy find Lucy?',1990,'Guelph Club',13.95),
('Les Gens Miserable',1996,'Basic',17.95),
('Les Gens Miserable',1996,'YRB Bronze',16.95),
('Les Gens Miserable',1996,'Readers Digest',14.95),
('Les Gens Miserable',1996,'CARP',17.95),
('Les Gens Miserable',1996,'YRB Silver',15.95),
('Les Gens Miserable',1996,'YRB Gold',14.95),
('Les Gens Miserable',1996,'Oprah',15.45),
('Les Gens Miserable',1996,'York Club',15.95),
('Les Gens Miserable',1996,'Waterloo Club',16.45),
('Tampopo Oishii',1997,'Basic',22.95),
('Tampopo Oishii',1997,'YRB Bronze',21.95),
('Tampopo Oishii',1997,'UofT Club',20.95),
('Tampopo Oishii',1997,'Readers Digest',20.95),
('Tampopo Oishii',1997,'CARP',20.95),
('Tampopo Oishii',1997,'YRB Silver',20.95),
('Tampopo Oishii',1997,'YRB Gold',19.95),
('Tampopo Oishii',1997,'Oprah',18.95),
('Tampopo Oishii',1997,'York Club',19.95),
('Tampopo Oishii',1997,'Waterloo Club',20.45),
('Tampopo Oishii',1997,'Guelph Club',20.45),
('Tande mou nai',2002,'Basic',112.95),
('Tande mou nai',2002,'YRB Bronze',108.95),
('Tande mou nai',2002,'UofT Club',106.95),
('Tande mou nai',2002,'Readers Digest',99.95),
('Tande mou nai',2002,'CARP',108.95),
('Tande mou nai',2002,'YRB Silver',104.95),
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('Tande mou nai',2002,'YRB Gold',100.95),
('Tande mou nai',2002,'Oprah',104.95),
('Tande mou nai',2002,'York Club',104.95),
('Tande mou nai',2002,'Waterloo Club',106.95),
('Tande mou nai',2002,'Guelph Club',106.95),
('Flibber Gibber',2004,'Basic',3.25),
('Flibber Gibber',2004,'YRB Bronze',3.15),
('Flibber Gibber',2004,'UofT Club',3.05),
('Flibber Gibber',2004,'Readers Digest',2.95),
('Flibber Gibber',2004,'CARP',3.25),
('Flibber Gibber',2004,'YRB Silver',3.05),
('Flibber Gibber',2004,'YRB Gold',2.95),
('Flibber Gibber',2004,'Oprah',1.20),
('Flibber Gibber',2004,'York Club',3.05),
('Flibber Gibber',2004,'Waterloo Club',3.15),
('Flibber Gibber',2004,'Guelph Club',2.95),
('La Petite Chou',2001,'Basic',14.50),
('La Petite Chou',2001,'YRB Bronze',14.00),
('La Petite Chou',2001,'Readers Digest',11.50),
('La Petite Chou',2001,'CARP',12.50),
('La Petite Chou',2001,'YRB Silver',13.50),
('La Petite Chou',2001,'YRB Gold',13.00),
('La Petite Chou',2001,'Oprah',12.50),
('La Petite Chou',2001,'York Club',13.50),
('La Petite Chou',2001,'Waterloo Club',13.50),
('La Petite Chou',2001,'Guelph Club',13.50),
('Napolean''s Revenge',1952,'Basic',149.85),
('Napolean''s Revenge',1952,'YRB Bronze',146.85),
('Napolean''s Revenge',1952,'UofT Club',142.85),
('Napolean''s Revenge',1952,'Readers Digest',135.85),
('Napolean''s Revenge',1952,'CARP',139.85),
('Napolean''s Revenge',1952,'YRB Silver',143.85),
('Napolean''s Revenge',1952,'YRB Gold',140.85),
('Napolean''s Revenge',1952,'Oprah',139.85),
('Napolean''s Revenge',1952,'York Club',139.85),
('Napolean''s Revenge',1952,'Waterloo Club',139.85),
('Napolean''s Revenge',1952,'Guelph Club',149.85),
('Pluto Collides With Mars',2004,'Basic',44.19),
('Pluto Collides With Mars',2004,'YRB Bronze',43.69),
('Pluto Collides With Mars',2004,'York Club',41.19),
('Pluto Collides With Mars',2004,'UofT Club',42.00),
('Pluto Collides With Mars',2004,'CAA',40.19),
('Pluto Collides With Mars',2004,'Waterloo Club',41.49),
('Pluto Collides With Mars',2004,'YRB Silver',43.19),
('Pluto Collides With Mars',2004,'Guelph Club',40.99),
('Pluto Collides With Mars',2004,'YRB Gold',42.69),
('Quarks and Other Matter',2000,'Basic',79.95),
('Quarks and Other Matter',2000,'YRB Bronze',76.95),
('Quarks and Other Matter',2000,'UofT Club',74.95),
('Quarks and Other Matter',2000,'Readers Digest',73.95),
('Quarks and Other Matter',2000,'CARP',75.95),
('Quarks and Other Matter',2000,'YRB Silver',73.95),
('Quarks and Other Matter',2000,'YRB Gold',70.95),
('Quarks and Other Matter',2000,'Oprah',75.95),
('Quarks and Other Matter',2000,'York Club',74.95),
('Quarks and Other Matter',2000,'Waterloo Club',75.95),
('Quarks and Other Matter',2000,'Guelph Club',76.95),
('Oberon',1963,'Basic',25.95),
('Oberon',1963,'YRB Bronze',24.95),
('Oberon',1963,'UofT Club',23.95),
('Oberon',1963,'Readers Digest',22.95),
('Oberon',1963,'CARP',25.95),
('Oberon',1963,'YRB Silver',23.95),
('Oberon',1963,'YRB Gold',22.95),
('Oberon',1963,'Oprah',23.45),
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('Oberon',1963,'York Club',23.95),
('Oberon',1963,'Waterloo Club',22.95),
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(25,'CARP','Brats like Us',1999,'2005-3-14-09.26.00',1),
(25,'CARP','Quantum Databases',2003,'2005-3-14-09.26.00',1),
(26,'York Club','Plato Rocks',1975,'2005-4-27-15.07.00',1),
(26,'York Club','Les Gens Miserable',1996,'2005-6-30-11.26.00',1),
(26,'York Club','Tampopo Oishii',1997,'2005-12-1-18.04.00',1),
(26,'YRB Silver','Flibber Gibber',2004,'2005-4-27-15.07.00',1),
(26,'York Club','Eigen Eigen',1980,'2005-6-30-11.26.00',1),
(26,'York Club','Ringo to Nashi',1997,'2005-12-1-18.04.00',1),
(26,'YRB Silver','Math is fun!',1995,'2005-4-27-15.07.00',1),
(26,'CAA','Acrimony Made Simple',1996,'2005-6-30-11.26.00',1),
(26,'York Club','Brats like Us',1999,'2005-4-27-15.07.00',1),
(26,'CAA','Getting into Snork U.',2004,'2005-4-27-15.07.00',1),
(26,'CAA','Are my feet too big?',1993,'2005-12-1-18.04.00',1),
(27,'CAA','Tchuss',2002,'2004-6-5-09.44.00',1),
(27,'York Club','Je ne me souvien pas',1997,'2004-6-5-09.44.00',1),
(28,'Oprah','Napolean''s Revenge',1952,'2003-7-17-10.14.00',1),
(28,'Basic','Databases made Real Hard',2002,'2005-7-20-16.52.00',1),
(28,'YRB Gold','SQL Kills!',2003,'2005-2-3-15.50.00',1),
(28,'YRB Gold','The Stars are not Enough',2002,'2005-2-13-12.08.00',1),
(28,'Oprah','Tomenatte Kudasai!',2000,'2005-2-13-12.08.00',1),
(28,'Oprah','Meine Kleine Katze',2002,'2005-7-20-16.52.00',3),
(28,'Oprah','Meine Kleine Katze',2002,'2005-2-3-15.50.00',1),
(28,'Oprah','Relational Algebra',2004,'2005-2-3-15.50.00',1),
(29,'UofT Club','Quarks and Other Matter',2000,'2005-9-20-10.19.00',1),
(29,'UofT Club','Databases aren''t',2004,'2005-9-20-10.19.00',1),
(29,'Basic','Dogs are not Cats',1995,'2005-6-10-17.16.00',1),
(29,'UofT Club','Darmstadt',2004,'2005-6-10-17.16.00',1),
(29,'Basic','Are my feet too big?',1993,'2005-9-20-10.19.00',1),
(29,'UofT Club','Rabbits are nice',1996,'2005-6-10-17.16.00',1),
(30,'YRB Silver','Will Snoopy find Lucy?',1990,'2005-10-20-15.28.00',1),
(30,'Readers Digest','Tande mou nai',2002,'2005-10-20-15.28.00',1),
(30,'YRB Silver','Suzy does Waterloo',2001,'2005-12-1-14.50.00',1),
(30,'Basic','Tchuss',2002,'2003-5-22-16.59.00',1),
(30,'Readers Digest','Parthenon',2004,'2005-10-20-15.28.00',1),
(30,'Readers Digest','Getting into Snork U.',2004,'2005-12-1-14.50.00',1),
(30,'Guelph Club','Strike Once, Strike Twice',2004,'2005-10-20-15.28.00',1),
(32,'CAA','Transmorgifacation',2004,'2005-5-18-10.43.00',1),
(32,'CAA','Alpha Centauri',2002,'2003-5-5-14.20.00',1),
(32,'Oprah','Recipes for Humans',2004,'2005-5-18-10.43.00',1),
(32,'CAA','Okay, Why Not?',2001,'2003-5-5-14.20.00',1),
(32,'Oprah','The Earth is not Enough',2003,'2005-5-18-10.43.00',1),
(32,'CAA','Cats are not Dogs',1996,'2004-5-12-13.51.00',1),
(32,'YRB Gold','Press the Red Button!',2003,'2005-5-18-10.43.00',1),
(32,'YRB Gold','DB2, DB3, and Beyond!',2004,'2005-5-18-10.43.00',1),
(33,'Waterloo Club','Yon-juu Hachi',1948,'2003-9-30-14.05.00',2),
(33,'Waterloo Club','Oui, Oui, Non!',1992,'2003-2-7-18.58.00',1),
(33,'Waterloo Club','Tchuss',2002,'2003-9-30-14.05.00',1),
(33,'CARP','Play me a Song',1997,'2003-2-7-18.58.00',1),
(33,'Waterloo Club','Curiouser and Curiouser',1953,'2003-9-30-14.05.00',1),
(33,'CARP','The Stars are not Enough',2002,'2003-2-7-18.58.00',1),
(33,'Waterloo Club','Not That London!',2003,'2005-9-18-12.48.00',1),
(33,'CARP','I don''t think so',2001,'2005-9-18-12.48.00',1),
(34,'UofT Club','Rats Like Us',1999,'2003-5-29-15.57.00',1),
(34,'UofT Club','Aubergines!',2000,'2003-5-29-15.57.00',1),
(35,'Readers Digest','Napolean''s Revenge',1952,'2005-3-28-15.49.00',1),
(35,'UofT Club','Databases aren''t',2004,'2005-3-19-18.38.00',1),
```

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(35,'UofT Club','Akachan Furu',2003,'2005-3-19-18.38.00',1),
(35,'Readers Digest','Cats are not Dogs',1996,'2005-3-28-15.49.00',1),
(36,'YRB Silver','The Vampires Among Us',1999,'2004-1-27-10.17.00',1),
(36,'CARP','La Petite Chou',2001,'2003-10-30-15.25.00',1),
(36,'CARP','Napolean''s Revenge',1952,'2003-10-30-15.25.00',1),
(36,'Guelph Club','Databases made Real Hard',2002,'2003-10-30-15.25.00',1),
(36,'CARP','Vegetables are Good!',1992,'2004-11-4-09.06.00',1),
(36,'CARP','Vegetables are Good!',1992,'2003-6-22-11.42.00',1),
(37,'York Club','Will Snoopy find Lucy?',1990,'2004-11-25-17.53.00',1),
(37,'Oprah','Les Gens Miserable',1996,'2003-1-11-09.51.00',1),
(37,'Oprah','La Petite Chou',2001,'2004-11-25-17.53.00',1),
(37,'York Club','Rats Like Us',1997,'2003-1-11-09.51.00',1),
(37,'Oprah','Eigen Eigen',1980,'2004-12-1-17.21.00',1),
(37,'Oprah','Okay, Why Not?',2001,'2003-1-11-09.51.00',1),
(37,'CAA','Is Math is fun?',1996,'2004-12-1-17.21.00',1),
(37,'CAA','Avarice is Good',1998,'2005-10-21-16.49.00',1),
(38,'YRB Silver','Will Snoopy find Lucy?',1990,'2001-10-11-17.15.00',1),
(38,'Oprah','Les Gens Miserable',1996,'2001-10-11-17.15.00',1),
(38,'YRB Silver','Ou est Ce Canada?',1998,'2001-10-11-17.15.00',1),
(38,'Waterloo Club','Curiouser and Curiouser',1953,'2001-10-11-17.15.00',1),
(38,'Waterloo Club','Math is fun!',1995,'2001-10-11-17.15.00',1),
(38,'Oprah','Bobbie Sue Ellen',1999,'2001-10-11-17.15.00',1),
(39,'Readers Digest','Rats Like Us',1999,'2005-1-9-16.22.00',1),
(39,'Readers Digest','Databases made Real Hard',2002,'2004-3-9-13.46.00',1),
(39,'Readers Digest','Databases made Real Hard',2002,'2005-1-9-16.22.00',2),
(39,'CAA','I''m Sorry, But No',2003,'2005-7-3-14.12.00',1),
(39,'CAA','Rigor Mortis',1023,'2005-1-9-16.22.00',1),
(39,'YRB Bronze','Base de Donne',2003,'2005-1-9-16.22.00',1),
(39,'YRB Bronze','Base de Donne',2003,'2004-3-9-13.46.00',1),
(40,'Waterloo Club','Pluto Collides With Mars',2004,'2005-9-30-10.26.00',1),
(40,'Waterloo Club','Quarks and Other Matter',2000,'2003-1-27-09.36.00',1),
(40,'Waterloo Club','Bancroft''s Great!',2003,'2004-5-17-14.17.00',1),
(40,'Waterloo Club','Montreal est dans Quebec',1999,'2003-6-12-17.18.00',1),
(40,'Waterloo Club','Nothing but Steak',1995,'2002-7-27-17.39.00',1),
(40,'Waterloo Club','Akachan Furu',2003,'2005-4-8-15.39.00',1),
(40,'Waterloo Club','Legacy Software made Fun',2004,'2005-9-30-10.26.00',1),
(40,'Waterloo Club','Avarice is Good',1998,'2003-6-12-17.18.00',1),
(41,'CAA','Tampopo Oishii',1999,'2002-8-23-09.39.00',1),
(41,'CAA','Play me a Song',1997,'2005-3-30-15.26.00',1),
(41,'CAA','Play me a Song',1997,'2002-6-5-10.06.00',1),
(41,'CAA','Math is fun!',1995,'2002-6-5-10.06.00',1),
(41,'CAA','Bobbie Sue Ellen',1999,'2003-12-1-18.42.00',1),
(41,'CAA','Been There Done That',2002,'2003-12-1-18.42.00',1),
(41,'CAA','Yum, Yum, English Cooking',1997,'2003-12-1-18.42.00',1),
(41,'Basic','Where art thou Bertha?',2003,'2005-3-30-15.26.00',1),
(41,'CAA','I don''t think so',2001,'2002-8-23-09.39.00',1),
(41,'CAA','Quantum Databases',2003,'2005-11-15-15.33.00',1),
(41,'CAA','Avarice is Good',1998,'2002-6-5-10.06.00',1),
(42,'Readers Digest','Rats Like Us',1999,'2005-8-19-14.18.00',1),
(42,'Readers Digest','Nippon no Joodan',2001,'2004-6-22-12.16.00',1),
(42,'Basic','Radiator Barbecuing',2002,'2005-1-13-15.03.00',2),
(42,'York Club','Okay, Why Not?',2001,'2004-6-22-12.16.00',1),
(42,'York Club','Where are my Socks?',1998,'2005-1-13-15.03.00',1),
(42,'Readers Digest','Rabbits are nice',2004,'2005-8-19-14.18.00',1),
(42,'Readers Digest','Strike Once, Strike Twice',2004,'2005-8-19-14.18.00',1),
(42,'Readers Digest','Base de Donne',2003,'2005-8-19-14.18.00',2),
(43,'YRB Gold','Bancroft''s Great!',2003,'2004-8-4-12.16.00',1),
(43,'YRB Gold','Yon-juu Hachi',1948,'2003-1-22-15.46.00',1),
(43,'YRB Gold','Vegetables are Good!',1992,'2002-7-7-11.29.00',1),
(43,'YRB Gold','Legacy Software made Fun',2004,'2005-3-17-14.18.00',1),
(43,'YRB Gold','Strike Once, Strike Twice',2004,'2005-3-17-14.18.00',1),
(43,'YRB Gold','DB2, DB3, and Beyond!',2004,'2005-3-17-14.18.00',1),
(44,'YRB Gold','Tensor Calculus made Easy',1996,'2003-11-3-09.32.00',1),
(44,'Readers Digest','Oberon',1963,'2005-7-18-12.59.00',1),
(44,'Basic','Transmorgifacation',2004,'2005-10-23-10.04.00',1),
```

```
    (44,'CAA','Okay, Why Not?',2001,'2005-10-23-10.04.00',1),
    (44,'CAA','Math is fun!',1993,'2005-10-23-10.04.00',1),
    (44,'Readers Digest','Cuisine Anglaise!?',1997,'2005-10-23-10.04.00',1),
    (44,'UofT Club','Rabbits are nice',2004,'2005-11-9-16.18.00',1),
    (44,'CAA','Quantum Databases',2003,'2005-5-26-17.23.00',1),
    (45,'Oprah','Capricia''s Conundrum',1993,'2004-3-19-10.31.00',1),
    (45,'York Club','Okay, Why Not?',2001,'2004-3-19-10.31.00',1),
    (45,'York Club','The Stars are not Enough',2002,'2004-3-19-10.31.00',1),
    (45,'York Club','Eigen Eigen',1980,'2005-7-14-11.36.00',1);

insert into yrb_shipping (weight, cost) values
    (6000,13.00),
    (5500,12.00),
    (5000,10.00),
    (4500,9.00),
    (4000,8.00),
    (3500,7.50),
    (3000,6.50),
    (2500,6.00),
    (2004,5.75),
    (1500,5.00),
    (1000,3.00),
    (500,2.00);
```

```
drop view  PRETTY_PURCHASE;
drop table YRB_BOOK;
drop table YRB_CATEGORY;
drop table YRB_CLUB;
drop table YRB_CUSTOMER;
drop table YRB_MEMBER;
drop table YRB_OFFER;
drop table YRB_PURCHASE;
drop table YRB_SHIPPING;
```

```
-- ancient

-- List the customers who made a purchase before January 1 2002
-- ('2002-1-1').  Show customer's name and city and the date (not
-- timestamp!) of purchase.  Eliminate duplicates.
-- Order by name + city + date

select distinct name, city, cast(when as date) as date
    from yrb_customer C, yrb_purchase P
    where C.cid = P.cid and
          cast(when as date) < cast('2002-1-1' as date);
```

```
NAME                 CITY            DATE
-------------------- --------------- ----------
Ulya Umbrigde        Ottawa          10/11/2001

  1 record(s) selected.
```

```
-- clubreport

-- For each club, what are the total sales, the number of distinct book
-- titles (title + year) bought via that club, and the number of customers
-- who belong to that club?
-- Order by total sales, from highest to lowest,
-- and then by club name in cases of ties.

with
    Sales (club, sales) as (
        select P.club, sum(P.qnty*O.price)
            from yrb_purchase P, yrb_offer O
            where P.title = O.title and P.year = O.year and P.club = O.club
            group by P.club
        union
        select club, 0
            from yrb_club
            where club not in (select club from yrb_purchase)
    ),

    ClubBooks (club, title, year) as (
        select distinct club, title, year
            from yrb_purchase
    ),

    BookCount (club, titles) as (
        select club, count(*)
            from ClubBooks
            group by club
        union
        select club, 0
            from yrb_club
            where club not in (select club from yrb_purchase)
    ),

    ClubMembers (club, membership) as (
        select club, count(*)
            from yrb_member
            group by club
        union
        select club, 0
            from yrb_club
            where club not in (select club from yrb_member)
    )

select S.club, S.sales, B.titles, C.membership
    from Sales S, BookCount B, ClubMembers C
    where S.club = B.club and S.club = C.club
    order by S.sales desc, S.club;
```

```
CLUB             SALES                            TITLES      MEMBERSHIP
---------------  -------------------------------- ----------- -----------
CAA                                      2136.94           34          18
Oprah                                    1514.68           38          17
Basic                                    1434.98           23          43
Waterloo Club                            1280.94           20           9
YRB Gold                                 1081.55           22           9
York Club                                 998.60           16          10
Readers Digest                            911.45           22          11
CARP                                      739.30           23           7
YRB Silver                                343.15           14          13
UofT Club                                 283.64            8           4
Guelph Club                               109.80            5           7
YRB Bronze                                 62.85            2           9

   12 record(s) selected.
```

```
-- repeat

-- List each customer who has bought more than one copy of the same book
-- over time.  Show the customer's name, the book's title and year, and
-- how many copies were purchased.

-- Order by name + title + year.

select name, title, year, sum(qnty) as total
    from yrb_purchase P, yrb_customer C
    where C.cid = P.cid
    group by P.cid, name, title, year
    having sum(qnty) > 1
    order by name, title, year;
```

```
NAME                 TITLE                     YEAR   TOTAL
-------------------- ------------------------- ------ -----------
Cary Cizek           Ringo to Nashi            1997             2
Finwick Cooper       Rabbits are nice          2004             4
Finwick Cooper       Tsukimono to Tsukemono    2004             3
Ingrid Iverson       Tropical Windsor          2004             3
Jackie Johassen      Avarice is Good           1998             2
Kathy Lee Gifford    Cuisine Anglaise!?        1997             2
Lux Luthor           Ottawa Hot Spots          2002             2
Lux Luthor           Toronto Underground       2001             2
Margaret Mitchie     SQL Kills!                2003            10
Oswell Orson         Yon-juu Hachi             1948             2
Phil Regis           Meine Kleine Katze        2002             4
Qfwfq                Cuisine Anglaise!?        1997             2
Qfwfq                Tsukimono to Tsukemono    2004             2
Steve Songheim       Vegetables are Good!      1992             2
Valerie Vixen        Base de Donne             2003             2
Valerie Vixen        Databases made Real Hard  2002             3
Xia Xu               Play me a Song            1997             2
Yves Yonge           Base de Donne             2003             2
Yves Yonge           Radiator Barbecuing       2002             2

  19 record(s) selected.
```

```
-- nofrench

-- List cities such that no one in that city has purchased any
-- books in French.  Do not have duplicates in the answer table.
-- Order by city.

(select distinct city
     from yrb_customer C)
except
(select city
     from yrb_purchase P, yrb_customer C, yrb_book B
     where P.title = B.title and P.year = B.year and
           C.cid = P.cid and
           language = 'French')
order by city;
```

```
CITY
---------------
Bancroft
London
Niagara Falls
Orilla
Parry Sound
Toronto

  6 record(s) selected.
```

```
-- uniclub

-- To how many university clubs (for example, CNU, UVA, VaTech, and W&M)
-- does each customer belong?
-- Order by name + city.

with
    Uniclub (cid, name, city, #uniclubs) as (
        select A.cid, A.name, A.city, count(*)
            from yrb_customer A, yrb_member M, yrb_club C
            where A.cid = M.cid and
                M.club = C.club and
                C.desc like 'University club%'
            group by A.cid, A.name, A.city
        )

select name, city, #uniclubs
    from Uniclub
union
select name, city, 0 as #uniclubs
    from yrb_customer
    where cid not in (select cid from Uniclub )
order by name, city;
```

```
NAME                  CITY            #UNICLUBS
-------------------- --------------- -----------
Al Bore               Niagara Falls            0
Andy Aardverk         Oshawa                   0
Boswell Biddles       Waterloo                 0
Cary Cizek            Toronto                  1
Clark Kent            Lakehead                 0
Doris Daniels         Windsor                  1
Egbert Engles         Pembroke                 1
Ekksdwl Qjksynn       Pluto                    0
Fanny Mae             Mississauga              0
Finwick Cooper        Guelph                   0
Fuzzy Fowles          Orilla                   1
Garp Google           Ottawa                   1
George Gush           Timmins                  0
George Wolf           Mississauga              1
Henrietta Hogg        Parry Sound              0
Ingrid Iverson        Oshawa                   2
Jack Daniels          London                   1
Jack Daniels          Windsor                  0
Jackie Johassen       Bancroft                 1
Jorge Lobo            Mississauga              1
Kathy Lee Gifford     Cornwall                 0
Klive Kittlehart      Parry Sound              1
Lux Luthor            Lakehead                 0
Margaret Mitchie      Toronto                  1
Mark Dogfurry         Toronto                  1
Nigel Nerd            Toronto                  1
Oswell Orson          Oshawa                   1
Parker Posey          Toronto                  0
Phil Regis            Lakehead                 0
Pretence Parker       Orilla                   1
Qfwfq                 Pluto                    0
Quency Quark          Sarnia                   1
Renee Riztp           Bancroft                 1
Sally Mae             Toronto                  0
Steve Songheim        Waterloo                 2
Suzy Sedwick          Ottawa                   1
Tracy Turnip          Toronto                  1
Trixie Trudeau        Waterloo                 1
Ulya Umbrigde         Ottawa                   1
Valerie Vixen         Pembroke                 1
Walter Wynn           Kingston                 1
Xia Xu                Toronto                  0
Yves Yonge            Ottawa                   2
Zachary Zoxx          London                   0
Zebulon Zilio         Georgetown               1

  45 record(s) selected.
```

```
-- percentage

-- List each language with the city that has the largest
-- percentage of book sales in that language across
-- cities which have had at least 20 books in total sold.
-- Measure book sales in number of books.

-- For example, say 44% of the books sold in Montreal are
-- French, 22% in Vancouver are French, 18% in Toronto, and so
-- forth, "French Montreal 44" would be in the output.

-- Show language, city, percentage, and number of books
-- (sold in that city in that language) for the output rows.
-- Order by language + city.

with
    Market (language, city, sales) as
        (select language, city, sum(qnty)
            from yrb_customer C, yrb_purchase P, yrb_book B
            where C.cid = P.cid and
                    P.title = B.title and P.year = B.year
            group by language, city),
    Total (city, total) as
        (select city, sum(sales)
            from Market M
            group by city
            having sum(sales) >= 20),
    Percent (language, city, percentage) as
        (select language, M.city, ((100 * sales) / total)
            from Market M, Total T
            where M.city = T.city),
    Best (language, high) as
        (select language, max(percentage)
            from Percent P
            group by language)
select P.language, P.city, percentage, sales
    from Percent P, Best B, Market M
    where P.language = B.language and P.percentage = B.high and
          P.language = M.language and P.city = M.city
    order by P.language, P.city;
```

```
LANGUAGE    CITY             PERCENTAGE  SALES
----------  ---------------  ----------  -----------
English     Toronto                  78           41
French      Waterloo                 25            5
German      Lakehead                 16            4
Greek       Oshawa                    4            1
Japanese    Oshawa                   12            3
Latin       Ottawa                    3            1
Plutonian   Pluto                    34            8

  7 record(s) selected.
```

```
-- orders

-- All the books a customer orders at the same time (when) are considered
-- to be part of the same "order".  Those books are shipped together to
-- the customer and the customer is billed for the entire order.

-- Calculate the bill for each "order" Show the customer's name and city,
-- the date and time of the order (not the timestamp!), and the bill.
-- Order by name + city + when.

select name, city, cast(when as date) as day, cast(when as time) as time,
       cast(sum(price * qnty) as decimal(5,2)) as bill
    from yrb_customer C, yrb_purchase P, yrb_offer O
    where C.cid = P.cid and
          P.title = O.title and P.year = O.year and P.club = O.club
    group by P.cid, name, city, when
    order by name, city, when;
```

```
NAME                 CITY             DAY        TIME     BILL
-------------------- ---------------- ---------- -------- -------
Al Bore              Niagara Falls    09/22/2005 10:01:00  183.85
Andy Aardverk        Oshawa           07/17/2005 16:27:00  363.70
Boswell Biddles      Waterloo         05/18/2004 11:43:00   53.95
Boswell Biddles      Waterloo         07/08/2005 18:09:00   45.40
Boswell Biddles      Waterloo         10/02/2005 12:37:00   13.45
Cary Cizek           Toronto          06/15/2003 12:13:00   47.40
Cary Cizek           Toronto          05/05/2004 14:49:00   32.95
Cary Cizek           Toronto          09/26/2004 16:32:00   32.95
Clark Kent           Lakehead         10/23/2005 14:59:00   63.40
Doris Daniels        Windsor          09/10/2005 13:03:00  334.50
Egbert Engles        Pembroke         03/11/2004 10:05:00   13.45
Egbert Engles        Pembroke         03/11/2005 15:46:00  154.90
Egbert Engles        Pembroke         04/29/2005 18:30:00   50.90
Ekksdwl Qjksynn      Pluto            03/09/2003 12:11:00   51.50
Ekksdwl Qjksynn      Pluto            07/23/2005 09:27:00  402.11
Ekksdwl Qjksynn      Pluto            12/01/2005 16:10:00  143.99
Fanny Mae            Mississauga      02/07/2003 10:59:00   11.45
Fanny Mae            Mississauga      08/24/2005 11:12:00   73.90
Finwick Cooper       Guelph           11/22/2003 14:29:00   22.45
Finwick Cooper       Guelph           05/27/2004 17:56:00   21.95
Finwick Cooper       Guelph           06/01/2005 09:37:00   95.15
Fuzzy Fowles         Orilla           01/27/2002 09:19:00  115.90
Fuzzy Fowles         Orilla           10/06/2005 11:12:00   69.80
Garp Google          Ottawa           03/17/2002 14:04:00   10.45
Garp Google          Ottawa           05/18/2005 10:11:00   62.35
Garp Google          Ottawa           09/14/2005 12:56:00    8.45
George Gush          Timmins          04/08/2002 17:59:00   35.95
George Gush          Timmins          06/07/2003 10:13:00   24.95
George Gush          Timmins          09/13/2005 12:08:00  119.85
George Wolf          Mississauga      04/27/2005 15:07:00  105.40
George Wolf          Mississauga      06/30/2005 11:26:00   94.40
George Wolf          Mississauga      12/01/2005 18:04:00   61.35
Henrietta Hogg       Parry Sound      12/01/2004 18:27:00  190.25
Ingrid Iverson       Oshawa           01/04/2004 14:18:00   35.95
Ingrid Iverson       Oshawa           02/27/2005 15:08:00   92.85
Ingrid Iverson       Oshawa           11/16/2005 09:52:00   93.15
Jack Daniels         London           03/19/2004 10:31:00   52.85
Jack Daniels         London           07/14/2005 11:36:00   57.95
Jack Daniels         Windsor          01/19/2003 09:32:00   13.45
Jack Daniels         Windsor          08/02/2003 09:20:00    2.50
Jack Daniels         Windsor          07/03/2004 12:39:00   37.40
Jack Daniels         Windsor          08/13/2005 13:11:00   11.50
Jack Daniels         Windsor          10/18/2005 10:18:00   66.95
Jackie Johassen      Bancroft         02/17/2002 16:08:00   21.95
Jackie Johassen      Bancroft         02/15/2004 13:22:00   18.45
Jackie Johassen      Bancroft         03/10/2005 15:05:00  270.85
Jackie Johassen      Bancroft         03/10/2005 16:22:00   21.95
Jackie Johassen      Bancroft         10/25/2005 10:15:00   18.95
Jackie Johassen      Bancroft         11/19/2005 11:02:00  363.35
Jorge Lobo           Mississauga      06/05/2004 09:44:00   35.40
Kathy Lee Gifford    Cornwall         10/10/2005 17:18:00  180.50
Klive Kittlehart     Parry Sound      03/04/2005 17:13:00  246.30
Klive Kittlehart     Parry Sound      08/16/2005 16:59:00   19.95
Klive Kittlehart     Parry Sound      10/23/2005 11:24:00   21.95
Lux Luthor           Lakehead         07/04/2002 16:33:00   82.95
Lux Luthor           Lakehead         09/26/2004 13:17:00   34.40
Lux Luthor           Lakehead         09/27/2004 12:27:00   35.40
Lux Luthor           Lakehead         06/23/2005 16:45:00   27.40
Lux Luthor           Lakehead         10/27/2005 18:01:00  130.80
Margaret Mitchie     Toronto          03/14/2005 09:26:00  111.35
Margaret Mitchie     Toronto          11/30/2005 14:23:00  399.50
```

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Mark Dogfurry        Toronto       05/05/2003 14:20:00      56.45
Mark Dogfurry        Toronto       05/12/2004 13:51:00      31.95
Mark Dogfurry        Toronto       05/18/2005 10:43:00     459.19
Nigel Nerd           Toronto       06/10/2005 17:16:00      74.35
Nigel Nerd           Toronto       09/20/2005 10:19:00     132.85
Oswell Orson         Oshawa        02/07/2003 18:58:00      74.85
Oswell Orson         Oshawa        09/30/2003 14:05:00     132.30
Oswell Orson         Oshawa        09/18/2005 12:48:00      23.50
Phil Regis           Lakehead      07/17/2003 10:14:00     139.85
Phil Regis           Lakehead      02/03/2005 15:50:00      66.40
Phil Regis           Lakehead      02/13/2005 12:08:00      49.90
Phil Regis           Lakehead      07/20/2005 16:52:00      84.95
Pretence Parker      Orilla        05/22/2003 16:59:00      24.95
Pretence Parker      Orilla        10/20/2005 15:28:00     158.30
Pretence Parker      Orilla        12/01/2005 14:50:00      37.90
Qfwfq                Pluto         08/08/2002 17:33:00      23.95
Qfwfq                Pluto         02/13/2003 15:13:00      10.45
Qfwfq                Pluto         04/16/2003 11:46:00      39.00
Qfwfq                Pluto         02/23/2005 12:37:00      37.37
Qfwfq                Pluto         04/24/2005 17:02:00      79.51
Qfwfq                Pluto         10/21/2005 11:05:00      86.40
Qfwfq                Pluto         12/01/2005 15:39:00       6.45
Quency Quark         Sarnia        05/29/2003 15:57:00      42.49
Renee Riztp          Bancroft      03/19/2005 18:38:00      65.40
Renee Riztp          Bancroft      03/28/2005 15:49:00     167.80
Sally Mae            Toronto       07/27/2005 11:45:00      82.05
Steve Songheim       Waterloo      06/22/2003 11:42:00      26.95
Steve Songheim       Waterloo      10/30/2003 15:25:00     189.30
Steve Songheim       Waterloo      01/27/2004 10:17:00      17.95
Steve Songheim       Waterloo      11/04/2004 09:06:00      26.95
Suzy Sedwick         Ottawa        06/13/2004 09:45:00      12.95
Suzy Sedwick         Ottawa        06/30/2005 13:58:00      76.85
Suzy Sedwick         Ottawa        08/11/2005 17:40:00      56.95
Tracy Turnip         Toronto       04/20/2003 12:12:00      41.00
Tracy Turnip         Toronto       12/01/2005 11:59:00      66.85
Trixie Trudeau       Waterloo      01/11/2003 09:51:00     112.85
Trixie Trudeau       Waterloo      11/25/2004 17:53:00      26.95
Trixie Trudeau       Waterloo      12/01/2004 17:21:00     117.90
Trixie Trudeau       Waterloo      10/21/2005 16:49:00     210.95
Ulya Umbrigde        Ottawa        10/11/2001 17:15:00     112.80
Valerie Vixen        Pembroke      03/09/2004 13:46:00      59.90
Valerie Vixen        Pembroke      01/09/2005 16:22:00     134.30
Valerie Vixen        Pembroke      07/03/2005 14:12:00       7.45
Walter Wynn          Kingston      07/27/2002 17:39:00      28.00
Walter Wynn          Kingston      01/27/2003 09:36:00      75.95
Walter Wynn          Kingston      06/12/2003 17:18:00     230.90
Walter Wynn          Kingston      05/17/2004 14:17:00      22.95
Walter Wynn          Kingston      04/08/2005 15:39:00      21.95
Walter Wynn          Kingston      09/30/2005 10:26:00      86.44
Xia Xu               Toronto       06/05/2002 10:06:00     242.90
Xia Xu               Toronto       08/23/2002 09:39:00      33.00
Xia Xu               Toronto       12/01/2003 18:42:00      35.45
Xia Xu               Toronto       03/30/2005 15:26:00      50.90
Xia Xu               Toronto       11/15/2005 15:33:00      62.95
Yves Yonge           Ottawa        06/22/2004 12:16:00      50.95
Yves Yonge           Ottawa        01/13/2005 15:03:00      50.35
Yves Yonge           Ottawa        08/19/2005 14:18:00      94.80
Zachary Zoxx         London        07/07/2002 11:29:00      26.95
Zachary Zoxx         London        01/22/2003 15:46:00      41.95
Zachary Zoxx         London        08/04/2004 12:16:00      23.45
Zachary Zoxx         London        03/17/2005 14:18:00     100.35
Zebulon Zilio        Georgetown    11/03/2003 09:32:00      50.95
Zebulon Zilio        Georgetown    05/26/2005 17:23:00      62.95
Zebulon Zilio        Georgetown    07/18/2005 12:59:00      22.95
Zebulon Zilio        Georgetown    10/23/2005 10:04:00     356.63
```

Zebulon Zilio   Georgetown   11/09/2005 16:18:00   18.45

   127 record(s) selected.

```
-- weights

-- Calculate the total weight of every customer's order.
-- Order by weight, descending.

select name, city, cast(when as date) as day, cast(when as time) as time,
       sum(weight * qnty) as grams
    from yrb_customer C, yrb_purchase P, yrb_book B
    where C.cid = P.cid and
          P.title = B.title and P.year = B.year
    group by name, city, when
    order by sum(weight * qnty) desc, name, city, when;
```

```
NAME                 CITY             DAY        TIME      GRAMS
-------------------- ---------------- ---------- -------- -----------
Mark Dogfurry        Toronto          05/18/2005 10:43:00        5002
Ekksdwl Qjksynn      Pluto            07/23/2005 09:27:00        4347
Margaret Mitchie     Toronto          11/30/2005 14:23:00        4250
Jackie Johassen      Bancroft         11/19/2005 11:02:00        3968
Andy Aardverk        Oshawa           07/17/2005 16:27:00        3776
Doris Daniels        Windsor          09/10/2005 13:03:00        3764
Zebulon Zilio        Georgetown       10/23/2005 10:04:00        3747
Jackie Johassen      Bancroft         03/10/2005 15:05:00        2860
Klive Kittlehart     Parry Sound      03/04/2005 17:13:00        2631
Xia Xu               Toronto          06/05/2002 10:06:00        2612
Walter Wynn          Kingston         06/12/2003 17:18:00        2425
Trixie Trudeau       Waterloo         10/21/2005 16:49:00        2198
Kathy Lee Gifford    Cornwall         10/10/2005 17:18:00        2121
Henrietta Hogg       Parry Sound      12/01/2004 18:27:00        2083
Steve Songheim       Waterloo         10/30/2003 15:25:00        2002
Al Bore              Niagara Falls    09/22/2005 10:01:00        1881
Pretence Parker      Orilla           10/20/2005 15:28:00        1843
Renee Riztp          Bancroft         03/28/2005 15:49:00        1832
Ekksdwl Qjksynn      Pluto            12/01/2005 16:10:00        1673
Egbert Engles        Pembroke         03/11/2005 15:46:00        1662
Oswell Orson         Oshawa           09/30/2003 14:05:00        1491
Phil Regis           Lakehead         07/17/2003 10:14:00        1479
Nigel Nerd           Toronto          09/20/2005 10:19:00        1461
Trixie Trudeau       Waterloo         12/01/2004 17:21:00        1411
Valerie Vixen        Pembroke         01/09/2005 16:22:00        1408
Lux Luthor           Lakehead         10/27/2005 18:01:00        1355
Ulya Umbrigde        Ottawa           10/11/2001 17:15:00        1312
Fuzzy Fowles         Orilla           01/27/2002 09:19:00        1290
Trixie Trudeau       Waterloo         01/11/2003 09:51:00        1257
George Wolf          Mississauga      04/27/2005 15:07:00        1244
Margaret Mitchie     Toronto          03/14/2005 09:26:00        1228
George Gush          Timmins          09/13/2005 12:08:00        1206
Zachary Zoxx         London           03/17/2005 14:18:00        1184
George Wolf          Mississauga      06/30/2005 11:26:00        1099
Ingrid Iverson       Oshawa           02/27/2005 15:08:00        1081
Yves Yonge           Ottawa           08/19/2005 14:18:00        1073
Ingrid Iverson       Oshawa           11/16/2005 09:52:00         994
Walter Wynn          Kingston         09/30/2005 10:26:00         985
Finwick Cooper       Guelph           06/01/2005 09:37:00         981
Qfwfq                Pluto            10/21/2005 11:05:00         959
Qfwfq                Pluto            04/24/2005 17:02:00         942
Sally Mae            Toronto          07/27/2005 11:45:00         937
Phil Regis           Lakehead         07/20/2005 16:52:00         912
Oswell Orson         Oshawa           02/07/2003 18:58:00         889
Fuzzy Fowles         Orilla           10/06/2005 11:12:00         883
Lux Luthor           Lakehead         07/04/2002 16:33:00         880
Fanny Mae            Mississauga      08/24/2005 11:12:00         845
Walter Wynn          Kingston         01/27/2003 09:36:00         823
Suzy Sedwick         Ottawa           06/30/2005 13:58:00         806
Jack Daniels         Windsor          10/18/2005 10:18:00         791
Tracy Turnip         Toronto          12/01/2005 11:59:00         772
Nigel Nerd           Toronto          06/10/2005 17:16:00         754
Phil Regis           Lakehead         02/03/2005 15:50:00         752
Renee Riztp          Bancroft         03/19/2005 18:38:00         735
Xia Xu               Toronto          11/15/2005 15:33:00         731
Zebulon Zilio        Georgetown       05/26/2005 17:23:00         731
George Wolf          Mississauga      12/01/2005 18:04:00         719
Clark Kent           Lakehead         10/23/2005 14:59:00         713
Garp Google          Ottawa           05/18/2005 10:11:00         688
Jack Daniels         London           07/14/2005 11:36:00         659
Suzy Sedwick         Ottawa           08/11/2005 17:40:00         659
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Mark Dogfurry        Toronto       05/05/2003 14:20:00          658
Boswell Biddles      Waterloo      05/18/2004 11:43:00          643
Ekksdwl Qjksynn      Pluto         03/09/2003 12:11:00          643
Boswell Biddles      Waterloo      07/08/2005 18:09:00          628
Valerie Vixen        Pembroke      03/09/2004 13:46:00          614
Jack Daniels         London        03/19/2004 10:31:00          604
Phil Regis           Lakehead      02/13/2005 12:08:00          590
Egbert Engles        Pembroke      04/29/2005 18:30:00          587
Zebulon Zilio        Georgetown    11/03/2003 09:32:00          582
Yves Yonge           Ottawa        01/13/2005 15:03:00          567
Yves Yonge           Ottawa        06/22/2004 12:16:00          549
Xia Xu               Toronto       03/30/2005 15:26:00          537
Cary Cizek           Toronto       06/15/2003 12:13:00          501
Quency Quark         Sarnia        05/29/2003 15:57:00          483
Ingrid Iverson       Oshawa        01/04/2004 14:18:00          467
Qfwfq                Pluto         04/16/2003 11:46:00          461
Tracy Turnip         Toronto       04/20/2003 12:12:00          459
Zachary Zoxx         London        01/22/2003 15:46:00          459
Jack Daniels         Windsor       07/03/2004 12:39:00          447
Lux Luthor           Lakehead      09/26/2004 13:17:00          428
Pretence Parker      Orilla        12/01/2005 14:50:00          423
Xia Xu               Toronto       08/23/2002 09:39:00          415
Lux Luthor           Lakehead      09/27/2004 12:27:00          396
Xia Xu               Toronto       12/01/2003 18:42:00          395
Jorge Lobo           Mississauga   06/05/2004 09:44:00          394
Qfwfq                Pluto         02/23/2005 12:37:00          393
Cary Cizek           Toronto       09/26/2004 16:32:00          353
Mark Dogfurry        Toronto       05/12/2004 13:51:00          353
Walter Wynn          Kingston      07/27/2002 17:39:00          338
Cary Cizek           Toronto       05/05/2004 14:49:00          334
George Gush          Timmins       04/08/2002 17:59:00          328
Trixie Trudeau       Waterloo      11/25/2004 17:53:00          321
Lux Luthor           Lakehead      06/23/2005 16:45:00          311
Finwick Cooper       Guelph        11/22/2003 14:29:00          297
Steve Songheim       Waterloo      06/22/2003 11:42:00          292
Steve Songheim       Waterloo      11/04/2004 09:06:00          292
Zachary Zoxx         London        07/07/2002 11:29:00          292
Qfwfq                Pluto         08/08/2002 17:33:00          290
Walter Wynn          Kingston      05/17/2004 14:17:00          276
Zachary Zoxx         London        08/04/2004 12:16:00          276
Oswell Orson         Oshawa        09/18/2005 12:48:00          271
Finwick Cooper       Guelph        05/27/2004 17:56:00          265
Pretence Parker      Orilla        05/22/2003 16:59:00          265
Jackie Johassen      Bancroft      02/17/2002 16:08:00          259
Klive Kittlehart     Parry Sound   10/23/2005 11:24:00          259
Jackie Johassen      Bancroft      02/15/2004 13:22:00          248
Walter Wynn          Kingston      04/08/2005 15:39:00          244
Klive Kittlehart     Parry Sound   08/16/2005 16:59:00          238
Zebulon Zilio        Georgetown    07/18/2005 12:59:00          237
George Gush          Timmins       06/07/2003 10:13:00          227
Jackie Johassen      Bancroft      03/10/2005 16:22:00          222
Steve Songheim       Waterloo      01/27/2004 10:17:00          192
Jackie Johassen      Bancroft      10/25/2005 10:15:00          186
Zebulon Zilio        Georgetown    11/09/2005 16:18:00          186
Egbert Engles        Pembroke      03/11/2004 10:05:00          159
Jack Daniels         Windsor       01/19/2003 09:32:00          159
Fanny Mae            Mississauga   02/07/2003 10:59:00          147
Suzy Sedwick         Ottawa        06/13/2004 09:45:00          147
Jack Daniels         Windsor       08/13/2005 13:11:00          139
Boswell Biddles      Waterloo      10/02/2005 12:37:00          129
Garp Google          Ottawa        03/17/2002 14:04:00          128
Qfwfq                Pluto         02/13/2003 15:13:00          119
Garp Google          Ottawa        09/14/2005 12:56:00          112
Valerie Vixen        Pembroke      07/03/2005 14:12:00          112
Qfwfq                Pluto         12/01/2005 15:39:00           79
```

Jack Daniels   Windsor   08/02/2003 09:20:00   57

  127 record(s) selected.

```
-- billing

-- All the books a customer orders at the same time (when) are considered
-- to be part of the same "order".  Those books are shipped together to
-- the customer and the customer is billed for the entire order.

-- Calculate the bill for each "order" with the shipping cost added.
-- The shipping cost is as follows:  The weight of the order is looked up
-- in the 'yrb_shipping' table.  If the weight is X grams, the entry just
-- higher than X is found in the shipping table and the associated
-- shipping price is added.  For instance, if the order's weight is 1447
-- grams, the entry '1500  5.00' is found, and so the cost is $5.00.

-- Show the customer's name and city, the date and time of the order (not
-- the timestamp!), the bill without the shipping charge, and the total
-- bill (with shipping).
-- Order by name + city + when.

with
    orders (cid, name, city, when, bill, grams) as
        (select P.cid, name, city, when,
                cast(sum(price * qnty) as decimal(5,2)),
                sum(weight * qnty)
           from yrb_customer C, yrb_purchase P, yrb_offer O, yrb_book B
           where C.cid = P.cid and
                 P.title = O.title and P.year = O.year and
                 P.club = O.club and
                 P.title = B.title and P.year = B.year
           group by P.cid, name, city, when),
    rounded (cid, name, city, when, bill, weighin) as
        (select cid, name, city, when, bill, min(weight)
           from orders O, yrb_shipping S
           where weight > grams
           group by cid, name, city, when, bill)
select name, city, cast(when as date) as day, cast(when as time) as time,
       bill, (bill + cost) as total
    from rounded R, yrb_shipping S
    where R.weighin = S.weight
    order by name, city, when;
```

```
NAME                 CITY             DAY        TIME      BILL     TOTAL
-------------------- ---------------- ---------- -------- ------- --------
Al Bore              Niagara Falls    09/22/2005 10:01:00  183.85   189.60
Andy Aardverk        Oshawa           07/17/2005 16:27:00  363.70   371.70
Boswell Biddles      Waterloo         05/18/2004 11:43:00   53.95    56.95
Boswell Biddles      Waterloo         07/08/2005 18:09:00   45.40    48.40
Boswell Biddles      Waterloo         10/02/2005 12:37:00   13.45    15.45
Cary Cizek           Toronto          06/15/2003 12:13:00   47.40    50.40
Cary Cizek           Toronto          05/05/2004 14:49:00   32.95    34.95
Cary Cizek           Toronto          09/26/2004 16:32:00   32.95    34.95
Clark Kent           Lakehead         10/23/2005 14:59:00   63.40    66.40
Doris Daniels        Windsor          09/10/2005 13:03:00  334.50   342.50
Egbert Engles        Pembroke         03/11/2004 10:05:00   13.45    15.45
Egbert Engles        Pembroke         03/11/2005 15:46:00  154.90   160.65
Egbert Engles        Pembroke         04/29/2005 18:30:00   50.90    53.90
Ekksdwl Qjksynn      Pluto            03/09/2003 12:11:00   51.50    54.50
Ekksdwl Qjksynn      Pluto            07/23/2005 09:27:00  402.11   411.11
Ekksdwl Qjksynn      Pluto            12/01/2005 16:10:00  143.99   149.74
Fanny Mae            Mississauga      02/07/2003 10:59:00   11.45    13.45
Fanny Mae            Mississauga      08/24/2005 11:12:00   73.90    76.90
Finwick Cooper       Guelph           11/22/2003 14:29:00   22.45    24.45
Finwick Cooper       Guelph           05/27/2004 17:56:00   21.95    23.95
Finwick Cooper       Guelph           06/01/2005 09:37:00   95.15    98.15
Fuzzy Fowles         Orilla           01/27/2002 09:19:00  115.90   120.90
Fuzzy Fowles         Orilla           10/06/2005 11:12:00   69.80    72.80
Garp Google          Ottawa           03/17/2002 14:04:00   10.45    12.45
Garp Google          Ottawa           05/18/2005 10:11:00   62.35    65.35
Garp Google          Ottawa           09/14/2005 12:56:00    8.45    10.45
George Gush          Timmins          04/08/2002 17:59:00   35.95    37.95
George Gush          Timmins          06/07/2003 10:13:00   24.95    26.95
George Gush          Timmins          09/13/2005 12:08:00  119.85   124.85
George Wolf          Mississauga      04/27/2005 15:07:00  105.40   110.40
George Wolf          Mississauga      06/30/2005 11:26:00   94.40    99.40
George Wolf          Mississauga      12/01/2005 18:04:00   61.35    64.35
Henrietta Hogg       Parry Sound      12/01/2004 18:27:00  190.25   196.25
Ingrid Iverson       Oshawa           01/04/2004 14:18:00   35.95    37.95
Ingrid Iverson       Oshawa           02/27/2005 15:08:00   92.85    97.85
Ingrid Iverson       Oshawa           11/16/2005 09:52:00   93.15    96.15
Jack Daniels         London           03/19/2004 10:31:00   52.85    55.85
Jack Daniels         London           07/14/2005 11:36:00   57.95    60.95
Jack Daniels         Windsor          01/19/2003 09:32:00   13.45    15.45
Jack Daniels         Windsor          08/02/2003 09:20:00    2.50     4.50
Jack Daniels         Windsor          07/03/2004 12:39:00   37.40    39.40
Jack Daniels         Windsor          08/13/2005 13:11:00   11.50    13.50
Jack Daniels         Windsor          10/18/2005 10:18:00   66.95    69.95
Jackie Johassen      Bancroft         02/17/2002 16:08:00   21.95    23.95
Jackie Johassen      Bancroft         02/15/2004 13:22:00   18.45    20.45
Jackie Johassen      Bancroft         03/10/2005 15:05:00  270.85   277.35
Jackie Johassen      Bancroft         03/10/2005 16:22:00   21.95    23.95
Jackie Johassen      Bancroft         10/25/2005 10:15:00   18.95    20.95
Jackie Johassen      Bancroft         11/19/2005 11:02:00  363.35   371.35
Jorge Lobo           Mississauga      06/05/2004 09:44:00   35.40    37.40
Kathy Lee Gifford    Cornwall         10/10/2005 17:18:00  180.50   186.50
Klive Kittlehart     Parry Sound      03/04/2005 17:13:00  246.30   252.80
Klive Kittlehart     Parry Sound      08/16/2005 16:59:00   19.95    21.95
Klive Kittlehart     Parry Sound      10/23/2005 11:24:00   21.95    23.95
Lux Luthor           Lakehead         07/04/2002 16:33:00   82.95    85.95
Lux Luthor           Lakehead         09/26/2004 13:17:00   34.40    36.40
Lux Luthor           Lakehead         09/27/2004 12:27:00   35.40    37.40
Lux Luthor           Lakehead         06/23/2005 16:45:00   27.40    29.40
Lux Luthor           Lakehead         10/27/2005 18:01:00  130.80   135.80
Margaret Mitchie     Toronto          03/14/2005 09:26:00  111.35   116.35
Margaret Mitchie     Toronto          11/30/2005 14:23:00  399.50   408.50
```

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Mark Dogfurry      Toronto       05/05/2003 14:20:00     56.45      59.45
Mark Dogfurry      Toronto       05/12/2004 13:51:00     31.95      33.95
Mark Dogfurry      Toronto       05/18/2005 10:43:00    459.19     471.19
Nigel Nerd         Toronto       06/10/2005 17:16:00     74.35      77.35
Nigel Nerd         Toronto       09/20/2005 10:19:00    132.85     137.85
Oswell Orson       Oshawa        02/07/2003 18:58:00     74.85      77.85
Oswell Orson       Oshawa        09/30/2003 14:05:00    132.30     137.30
Oswell Orson       Oshawa        09/18/2005 12:48:00     23.50      25.50
Phil Regis         Lakehead      07/17/2003 10:14:00    139.85     144.85
Phil Regis         Lakehead      02/03/2005 15:50:00     66.40      69.40
Phil Regis         Lakehead      02/13/2005 12:08:00     49.90      52.90
Phil Regis         Lakehead      07/20/2005 16:52:00     84.95      87.95
Pretence Parker    Orilla        05/22/2003 16:59:00     24.95      26.95
Pretence Parker    Orilla        10/20/2005 15:28:00    158.30     164.05
Pretence Parker    Orilla        12/01/2005 14:50:00     37.90      39.90
Qfwfq              Pluto         08/08/2002 17:33:00     23.95      25.95
Qfwfq              Pluto         02/13/2003 15:13:00     10.45      12.45
Qfwfq              Pluto         04/16/2003 11:46:00     39.00      41.00
Qfwfq              Pluto         02/23/2005 12:37:00     37.37      39.37
Qfwfq              Pluto         04/24/2005 17:02:00     79.51      82.51
Qfwfq              Pluto         10/21/2005 11:05:00     86.40      89.40
Qfwfq              Pluto         12/01/2005 15:39:00      6.45       8.45
Quency Quark       Sarnia        05/29/2003 15:57:00     42.49      44.49
Renee Riztp        Bancroft      03/19/2005 18:38:00     65.40      68.40
Renee Riztp        Bancroft      03/28/2005 15:49:00    167.80     173.55
Sally Mae          Toronto       07/27/2005 11:45:00     82.05      85.05
Steve Songheim     Waterloo      06/22/2003 11:42:00     26.95      28.95
Steve Songheim     Waterloo      10/30/2003 15:25:00    189.30     195.05
Steve Songheim     Waterloo      01/27/2004 10:17:00     17.95      19.95
Steve Songheim     Waterloo      11/04/2004 09:06:00     26.95      28.95
Suzy Sedwick       Ottawa        06/13/2004 09:45:00     12.95      14.95
Suzy Sedwick       Ottawa        06/30/2005 13:58:00     76.85      79.85
Suzy Sedwick       Ottawa        08/11/2005 17:40:00     56.95      59.95
Tracy Turnip       Toronto       04/20/2003 12:12:00     41.00      43.00
Tracy Turnip       Toronto       12/01/2005 11:59:00     66.85      69.85
Trixie Trudeau     Waterloo      01/11/2003 09:51:00    112.85     117.85
Trixie Trudeau     Waterloo      11/25/2004 17:53:00     26.95      28.95
Trixie Trudeau     Waterloo      12/01/2004 17:21:00    117.90     122.90
Trixie Trudeau     Waterloo      10/21/2005 16:49:00    210.95     216.95
Ulya Umbrigde      Ottawa        10/11/2001 17:15:00    112.80     117.80
Valerie Vixen      Pembroke      03/09/2004 13:46:00     59.90      62.90
Valerie Vixen      Pembroke      01/09/2005 16:22:00    134.30     139.30
Valerie Vixen      Pembroke      07/03/2005 14:12:00      7.45       9.45
Walter Wynn        Kingston      07/27/2002 17:39:00     28.00      30.00
Walter Wynn        Kingston      01/27/2003 09:36:00     75.95      78.95
Walter Wynn        Kingston      06/12/2003 17:18:00    230.90     236.90
Walter Wynn        Kingston      05/17/2004 14:17:00     22.95      24.95
Walter Wynn        Kingston      04/08/2005 15:39:00     21.95      23.95
Walter Wynn        Kingston      09/30/2005 10:26:00     86.44      89.44
Xia Xu             Toronto       06/05/2002 10:06:00    242.90     249.40
Xia Xu             Toronto       08/23/2002 09:39:00     33.00      35.00
Xia Xu             Toronto       12/01/2003 18:42:00     35.45      37.45
Xia Xu             Toronto       03/30/2005 15:26:00     50.90      53.90
Xia Xu             Toronto       11/15/2005 15:33:00     62.95      65.95
Yves Yonge         Ottawa        06/22/2004 12:16:00     50.95      53.95
Yves Yonge         Ottawa        01/13/2005 15:03:00     50.35      53.35
Yves Yonge         Ottawa        08/19/2005 14:18:00     94.80      99.80
Zachary Zoxx       London        07/07/2002 11:29:00     26.95      28.95
Zachary Zoxx       London        01/22/2003 15:46:00     41.95      43.95
Zachary Zoxx       London        08/04/2004 12:16:00     23.45      25.45
Zachary Zoxx       London        03/17/2005 14:18:00    100.35     105.35
Zebulon Zilio      Georgetown    11/03/2003 09:32:00     50.95      53.95
Zebulon Zilio      Georgetown    05/26/2005 17:23:00     62.95      65.95
Zebulon Zilio      Georgetown    07/18/2005 12:59:00     22.95      24.95
Zebulon Zilio      Georgetown    10/23/2005 10:04:00    356.63     364.63
```

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Zebulon Zilio   Georgetown   11/09/2005 16:18:00   18.45   20.45

   127 record(s) selected.

```
-- droppable
-- A club is droppable if all the same purchases in the database could still
-- have been made by the customers, just using the remaining clubs instead.
-- Report each droppable club along with how much more money (or less!) YRB
-- would have made if that club had never existed.  Assume that a club
-- "reassignment" for each purchase involving the dropped club replaces it
-- will a best offer (across the remaining clubs) for that customer.

with
    redo (cid, title, year, when, diff, old, new) as (
        select P.cid, P.title, P.year, P.when,
               (N.price - O.price) * P.qnty,
               O.club, N.club
          from yrb_purchase P, yrb_offer O, yrb_offer N, yrb_member M
          where P.title = O.title and P.year = O.year and
                P.club = O.club and
                P.cid = M.cid and M.club <> P.club and
                P.title = N.title and P.year = N.year and
                M.club = N.club
    ),

    min_redo (cid, title, year, when, diff, old) as (
        select cid, title, year, when, min(diff), old
          from redo
          group by cid, title, year, when, old
    )

select R.old as club, sum(R.diff) as savings
    from min_redo R
    group by R.old
    having count(*) =
           (select count(*)
              from yrb_purchase P
              where R.old = P.club)
union
select club, 0 as savings
    from yrb_club
    where club not in (select club from yrb_purchase)
order by club;
```

```
CLUB            SAVINGS
--------------- ------------------------------
CAA                                      98.24
CARP                                     25.00
Guelph Club                               1.50
Oprah                                    82.50
Readers Digest                           47.55
UofT Club                                 6.00
Waterloo Club                            45.70
YRB Bronze                               -8.00
YRB Gold                                 37.50
YRB Silver                                7.50
York Club                                12.00

  11 record(s) selected.
```