

Part C [9 points]

The following schemas describe relations in the sample database in CS:I.

- A) Movie (MovieId:key, Title, Genre, Rating)
- B) Customer (CustomerId:key, Name, Address, CreditCardNumber)
- C) Rents (CustomerId, MovieId, DateRented, DateDue)
- D) NEW $\leftarrow$ SELECT from MOVIE where RATING = "PG"
- E) PGmovies $\leftarrow$ PROJECT MovieId, Title from NEW
- F) TEMP1 $\leftarrow$ JOIN CUSTOMER and RENTS
where CUSTOMER.CustomerId = RENTS.CustomerId
- G) RENTALS $\leftarrow$ PROJECT Name, Address, MovieId from TEMP1
- H) TEMP2 $\leftarrow$ JOIN RENTALS and PGmovies
where RENTALS.MovieId = PGmovies.MovieId
- I) PGrenters $\leftarrow$ PROJECT Name, Address, Title from TEMP2

For each relation below, select its schema from the list above.

_____ B			
CustomerId	Name	Address	CreditCardNumber
101	Dennis Cook	789 Main	993726762357
102	Doug Nickle	456 Second	632783087764
103	Randy Wolf	12 Elm	854072657547
104	Amy Stevens	Yellow Brick Road	184585788722
105	Susan Klaton	654 Lois Lane	537212603203
106	Dale Evans	987 Broadway	053118262075
107	Chris Stein	1010 Abbey Road	862175961142

_____ F							
CustomerId	Name	Address	CreditCard Number	CustomerId	MovieId	DateRented	DateDue
101	Dennis Cook	789 Main	594224783671	101	102	08/11/2010	15/11/2010
101	Dennis Cook	789 Main	444704723566	101	104	04/11/2010	14/11/2010
102	Doug Nickle	456 Second	029535839093	102	101	09/11/2010	11/11/2010
103	Randy Wolf	12 Elm	486023944928	103	104	07/11/2010	10/11/2010
103	Randy Wolf	12 Elm	292827664258	103	102	05/11/2010	11/11/2010
104	Amy Stevens	Yellow Brick Road	015415754965	104	107	05/11/2010	10/11/2010
105	Susan Klaton	654 Lois Lane	883051112327	105	1033	04/11/2010	13/11/2010
107	Chris Stein	1010 Abbey Road	832941568336	107	7442	06/11/2010	13/11/2010

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Name	Address	Movield
Dennis Cook	789 Main	102
Dennis Cook	789 Main	104
Doug Nickle	456 Second	101
Randy Wolf	12 Elm	104
Randy Wolf	12 Elm	102
Amy Stevens	Yellow Brick Road	107
Susan Klaton	654 Lois Lane	1033
Chris Stein	1010 Abbey Road	7442

Select one of the following terms to complete each of the following statements.

A) attribute	B) cardinality constraint
C) database	D) database engine
E) database management system	F) database model
G) Entity-relationship modelling	H) ER diagram
I) Join	J) key
K) physical database	L) Project
M) query	N) relation
O) relational model	P) schema
Q) Select	R) SQL
S) subchema	T) tuple

Place the appropriate **LETTER** in the blank.

- 1) A structured set of data is called a(n) _____. **C**
- 2) A record is also called a(n) _____. **T**
- 3) _____ is a database operation to create a relationship. **I**
- 4) _____ is software that supports access to and modification of the database contents. **D**
- 5) A description of only that part of the database that is particular to a user's needs is a(n) _____. **S**
- 6) A(n) _____ is one or more fields of a record that uniquely identifies it. **J**