Mahavir Education Trust's

SHAH & ANCHOR

KUTCHHI ENGINEERING COLLEGE

CHEMBUR, MUMBAI-400088

DBMS QUIZ - 2

Academic Year: 2020-2021 Branch:
Computer Engineering
Subject: dbms
Year: TE
Semester: 5
Date: 28/09/2020

* Required

CLASS *

TE4

ROLL NUMBER *

39

FULL NAME *

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1. For the given schema (Only PK are mentioned) answer the first FOUR questions. Which of the tables contains Foreign Key?

PERSONS(aadhar, name, sname, mobile)

Stock_transact(aadhar, NSE_id, Qty, date,price)

StockN(NSE_id, Stock_name, description)

Stock_price(NSE_id, date, open,close,high,low)

- stock_transact
- Stock_price

- [x] stock_transact & Stock_price
- [ ] stock_transact & Stock_N

Clear selection

2. Observe schema in Q1. Following DDL command is in line with the above schema.

- [ ] CREATE TABLE stock_N (NSE_id VARCHAR2(25), Stock_name VARCHAR2(25), description VARCHAR2(25), CONSTRAINT sn_pk PRIMARY KEY (NSE_ID), CONSTRAINT sn_st_fk FOREIGN KEY(NSE_id) REFERENCES Stock_transact(NSE_id))
- [x] CREATE TABLE stock_N (NSE_id VARCHAR2(25), Stock_name VARCHAR2(25), description VARCHAR2(25), CONSTRAINT sn_pk PRIMARY KEY (NSE_ID))
- [ ] CREATE TABLE stock_N (NSE_id VARCHAR2(25), Stock_name VARCHAR2(25), description VARCHAR2(25), CONSTRAINT sn_pk PRIMARY KEY (NSE_ID), CONSTRAINT sn_st_fk FOREIGN KEY(NSE_id) REFERENCES Stock_price(NSE_id))
- [ ] CREATE TABLE stock_N (NSE_id VARCHAR2(25), Stock_name VARCHAR2(25), description VARCHAR2(25), CONSTRAINT sn_pk PRIMARY KEY (NSE_ID, Stock_name))

Clear selection

3. Observe schema in Q1. Determine which of the following statement is true

- [ ] Relationship between persons and Stock_N is 1:N
- [ ] Relationship between persons and Stock_N is N:1
- [ ] Relationship between persons and Stock_N is 1:1
- [x] Relationship between persons and Stock_N is M:N

Clear selection

4. Observe schema in Q1. Determine which of the following statement is true

- [ ] Relationship between stockN and Stock_price is 1:N
- [ ] Relationship between stockN and Stock_price is N:1
- [x] Relationship between stockN and Stock_price is 1:1
- [ ] Relationship between stockN and Stock_price is M:N

Clear selection

5. With respect to aggregation, which is a valid statement?

- ○ Aggregation is constraint generalization
- ○ Aggregation is a ternary relationship between aggregate and two entities
- ○ Aggregation is created when 'n'ary relationship has some constraint
- ◉ Aggregation is modelled to combine to entities into one.

Clear selection

6. Overlapping constraint means

- ○ Entity in the any of the subclass can be present in superclass
- ○ Common Entity in the subclasses can not be present in superclass
- ◉ Entity in one subclass may be present in other subclass
- ○ Each Entity in the super class must be present in at least one sub class

Clear selection

7. Total disjoint constraint in Generalization/ specializations means

- ○ Each Entity in the super class may be present in multiple sub classes
- ○ Each Entity in the super class may be present in one and only one sub class
- ○ Each Entity in the super class must be present in at least one sub class
- ◉ Each Entity in the super class must be present in only one sub class

Clear selection

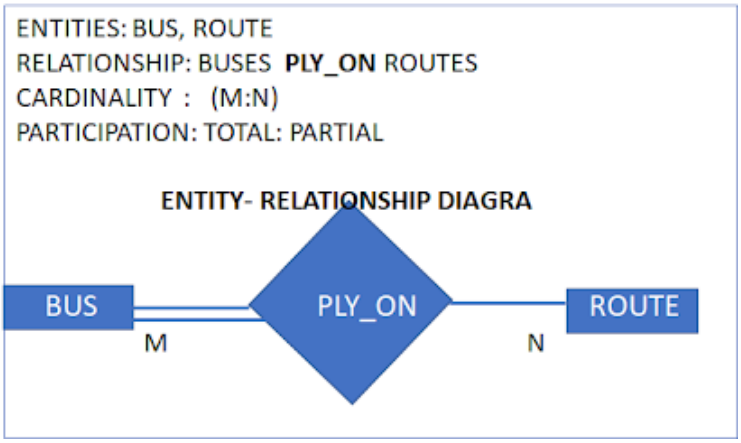
8. Which is the correct statement w.r.t Union and multiple inheritance

- ○ Union means joining super classes into one united superclass.
- ◉ in Union entity in subclass inherits from all its super classes.
- ○ in Union entity in subclass inherits only from any of the one super class.

- Union means joining sub classes into one united union or categaory.

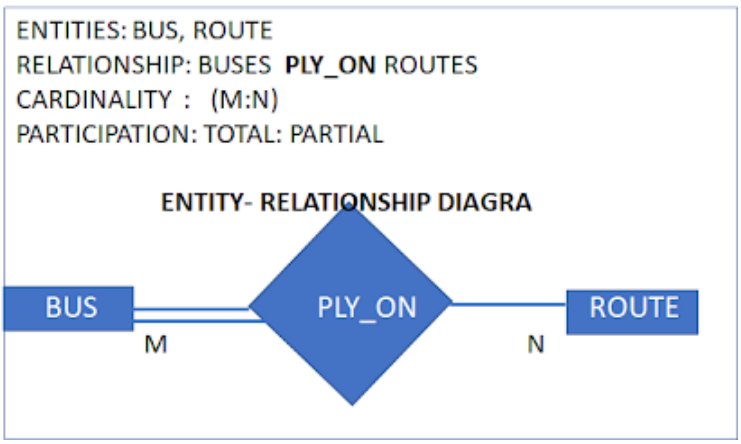
Clear selection

9. Observe following ERD and SELECT CORRECT STATEMENT



- PLY_ON relation is in total participation with BUS and PARTIAL with ROUTE
- BUS is in TOTAL participation with relation PLY_ON and ROUTE is in PARTIAL participation wIth relation PLY_ON
- BUS is in PARTIAL participation with relation PLY_ON and ROUTE is in PARTIAL participation wIth relation PLY_ON
- PLY_ON relation is in PARTIAL participation with BUS and PARTIAL with ROUTE

10. Observe following ERD and SELECT CORRECT schema for PLY_ON table



- PLY_ON (bus_rto:FK(BUS), rid:FK(route), time):PK (bus_rto,rid)
- PLY_ON (bus_rto:FK(BUS):NOT NULL, rid:FK(route):NOT NULL, time):PK (bus_rto,rid)
- PLY_ON (bus_rto:FK(BUS):NOT NULL, rid:FK(route), time):PK (bus_rto,rid)
- PLY_ON (bus_rto:FK(BUS), rid:FK(route):NOT NULL, time):PK (bus_rto,rid)

Clear selection

11. Which of the following will be a good design for the ERD shown below.

ENTITIES: SECTIONS, BOOKS
RELATIONSHIP: SECTION **CONTAINS** BOOKS
CARDINALITY : (I:N)
PARTICIPATION: TOTAL: TOTAL
ENTITY- RELATIONSHIP DIAGRAM

- ○ SECTION, CONTAINS AND BOOK with CONTAINS willhave foreign keys from SECTION and BOOKS
- ○ SECTION and CONTAINS with CONTAINS will have foreign keys from BOOKS
- ○ CONTAINS AND BOOK with CONTAINS will have foreign keys from SECTION
- ◉ SECTION AND BOOKS with BOOKS will have foreign keys from SECTION

Clear selection

12. Which of the following will be a good design for the ERD shown below, assume CONTAINS relation has attribute BtS (the date on which Book is added to the section).

ENTITIES: SECTIONS, BOOKS
RELATIONSHIP: SECTION **CONTAINS** BOOKS
CARDINALITY : (I:N)
PARTICIPATION: TOTAL: TOTAL
ENTITY- RELATIONSHIP DIAGRAM

- ○ Attribute BtS to be added to SECTION table
- ◉ Attribute BtS to be added to BOOKS table
- ○ Since Relation has an attribute separate table for CONTAINS is created having two foreign keys and BtS as a third attribute
- ○ Since Relation has an attribute separate table for CONTAINS is created having one foreign key from SECTION TABLE and BtS as a SECOND attribute

Clear selection

13. Descriptive Attribute means

- ○ attribute of any entity
- ○ attribute of the superclass
- ○ attribute of the subclass
- ◉ attribute of the relation

Clear selection

14. Recursive relationship means

- ○ Relationship between superclass and its subclass
- ○ Relationship sets having same foreign Keys
- ◉ Relationship between itself
- ○ Relationship between Strong and Weak Entity.

Clear selection

15. For the Candidate key, which statements are true?

- ☐ CK uniquely identifies entity in relationship set.
- ☑ CK uniquely identifies entity in entity set.
- ☑ CK is minimal super kry
- ☐ CK has only one attribute.

16. For keys, Select correct statements?

- ☐ If we remove an attribute from super-key, it is still possible that remaining attributes can form a key.
- ☑ Primary key is a minimal super-key and is actually a candidate key.
- ☑ Primary key means one attribute candidate key.
- ☑ Once the Primary key is chosen, remaining keys are 'alternate keys'.

17. Choose correct answers:

- ☑ Candidate key can be NULL
- ☑ UNIQUE attribute can be NULL
- ☑ FOREIGN KEY can be NULL
- ☐ FOREIGN KEY can be COMPOSITE.

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