QUESTION 1

5 points Save Answer

Given the following database:
branch (branch_name, branch_city, assets, phone)
customer (customer_ID, customer_name, customer_street, customer_city, phone_number, start_date)
loan (loan_number, branch_name, amount, interest, monthly_fees)
borrows (customer_ID, loan_number, date)
account (account_number, branch_name, available_balance, interest, monthly_fees, account_holder_name)
owns (customer_ID, account_number, date)

Identify the primary and foreign keys of table *owns*.

1. *owns (customer_ID PK, account_number PK FK, date)*
2. *All the other answers are incorrect.*
3. *owns (customer_ID PK FK, account_number PK FK, date)*
4. *owns (customer_ID PK FK, account_number PK, date)*
5. *owns (customer_ID PK, account_number FK, date FK)*

QUESTION 2

5 points Save Answer

Given the following database:
person (driver_id, name, address, phone_number)
car (license, model, year, insurance)
accident (report_number, date, location, officer_name)
owns (driver_id, license, date, payment)
participated (driver_id, license, report_number, damage_amount)

Identify the primary and foreign keys of table *participated*.

1. *All the other answers are incorrect.*
2. *participated (driver_id PK FK, license PK FK, report_number PK FK, damage_amount)*
3. *participated (driver_id PK, license PK FK, report_number PK, damage_amount)*
4. *participated (driver_id PK, license PK FK, report_number PK FK, damage_amount)*
5. *participated (driver_id PK FK, license PK, report_number PK, damage_amount)*

QUESTION 3

5 points Save Answer

Given the following database:
branch (branch_name, branch_city, branch_address, phone)
customer (customer_ID, customer_name, customer_street, customer_city, phone_number, start_date)
loan (loan_number, branch_name, amount, interest, monthly_fees)
borrow (customer_ID, loan_number, date)
account (account_number, branch_name, available_balance, interest, monthly_fees, account_holders_name)
deposit (customer_ID, account_number, date)

Identify the multi-valued attributes.

1. *phone_number*
2. *account_holders_name*
3. *phone*
4. *All the answers are correct.*
5. *branch_address*

QUESTION 4

5 points Save Answer

Given the following database:
person (driver_id, name, address, phone_number)
car (license, model, year, insurance)
accident (report_number, date, location, officer_name)
owns (driver_id, license, date, payment)
participated (driver_id, license, report_number, damage_amount)

Identify the multi-valued attributes.

1. *All the other answers are incorrect.*
2. *report_number, driver_id*
3. *address, report_number*
4. *phone_number, report_number*
5. *phone_number, address*

QUESTION 5

5 points Save Answer

Given the following database:
branch (branch_name PK, branch_city, assets, phone)
customer (customer_ID PK, customer_name, customer_street, customer_city, phone_number, start_date)
loan (loan_number PK, branch_name FK, customer_ID FK, amount, interest, monthly_fees)
account (account_number PK, branch_name FK, customer_ID FK, available_balance, interest, monthly_fees, account_holder_name)

Identify the cardinality of the relationship between *customer* and *loan*.

1. *M:1.*
2. *1:M.*
3. *1:1.*
4. *All the other answers are incorrect.*
5. *M:N.*

QUESTION 6

5 points Save Answer

Given the following database:
person (driver_id PK, name, address, phone_number)
car (license PK, driver_id FK, model, year, insurance, date, payment)
accident (report_number PK, license FK, date, location, officer_name, damage_amount)

Identify the cardinality of the relationship between *person* and *car*, including obligation.

1. *1:M, dashed line towards car only.*
2. *1:M, dashed line towards person only.*
3. *1:M, solid line towards both ends.*
4. *All the other answers are incorrect.*
5. *1:M, dashed line on both ends.*

QUESTION 7 — 5 points — Save Answer

Given the following database:
person (driver_id PK, name, address, phone_number)
car (license PK, driver_id FK, model, year, insurance, date, payment)
accident (report_number PK, license FK, date, location, officer_name, damage_amount)

Identify the cardinality of the relationship between *car* and *accident*, including obligation.

1. *M:N, dashed line towards car only.*
2. *M:N, solid line towards both ends.*
3. *All the other answers are incorrect.*
4. *M:1, dashed line towards accident only.*
5. *1:M, dashed line towards car only.*

QUESTION 8 — 5 points — Save Answer

Consider a Many-to-Many relationship between the following entities: Student and Module. Obligation between the two entities is represented with dashed lines on both ends. Which of the following statements is correct?

1. *Each student has at least 1 module. Each module may have 1 or many students.*
2. *Each student may be enrolled in 1 or many modules. Each module may have 1 or many students.*
3. *Each student has at least 1 module. Each module has at least 1 student.*
4. *Each student may be enrolled in 1 or many modules. Each module has at least 1 student.*
5. *All the other answers are incorrect.*

QUESTION 9 — 5 points — Save Answer

Which of the following statements about SQL tables is correct?

1. *All tables must have a unique name (within a given schema).*
2. *Columns have names. Each name must be unique within a table.*
3. *In every row, there is a maximum of one value for each column.*
4. *A row does not need to have a value for every attribute. An attribute with no value has the value NULL, when permitted.*
5. *All the answers are correct.*

QUESTION 10 — 5 points — Save Answer

Select **True/False** for the statement: *Pimary Key must be unique and must not allow the NULL.*

- True
- False