

Which of the following is the correct way to generate an Index?

Choices:

INSERT INDEX index_name ON database_name;

INSERT INDEX index_name ON table_name;

CREATE INDEX index_name ON database_name;

CREATE INDEX index_name ON table_name;



Which of the following is the correct syntax to create UNIQUE Indexes?

Choices:

CREATE INDEX index_name ON table_name (column_name);

CREATE INDEX index_name on UNIQUE table_name (column_name);

CREATE INDEX UNIQUE index_name on table_name (column_name);

CREATE UNIQUE INDEX index_name on table_name (column_name);



Which of the following is the correct syntax to remove the view?

Choices:

DROP VIEW table_name;

DROP VIEW view_name;

DELETE VIEW view_name;

REMOVE VIEW table_name;



Which of the following is the correct syntax to create view?

Choices:

INSERT VIEW *view_name* AS SELECT *column1*, *column2*, FROM *table_name*
WHERE *condition*;

INSERT VIEW *view_name* AS FROM *table_name* SELECT *column1*, *column2*,
WHERE *condition*;

CREATE VIEW *view_name* AS SELECT *column1*, *column2*, FROM *table_name*
WHERE *condition*;

CREATE VIEW *view_name* WHERE *condition* AS SELECT *column1*, *column2*,
FROM *table_name*;



We can delete a view with the _____ command.

Choices:

DELETE VIEW

REMOVE VIEW

DROP VIEW

TERMINATE VIEW



Which of the following is also known as a virtual table?

Choices:

Schema

Database

View

Join



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Data stores are not created in the _____.

Choices:

Level 1 diagram

Level 2 diagram

Detailed diagram

Context diagram



----- dependency occurs when one non-key attribute determines another non-key attribute.

Choices:

 Transitive Partial Functional Associative

In ----- we eliminate transitive dependency.

Choices:

1NF

2NF

3NF

BCNF



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INSERT command is an example of -----.

Choices:

DDL

DML

DCL

DOM



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Which of the following clause is used to filter the results of an SQL statement?

Choices:

SELECT

WHERE

INSERT

ORDER BY



Which of the following SQL query is used to retrieve all records having employee names starting with letter B?

Choices:

SELECT * FROM Employee WHERE empName LIKE 'B%' ;

SELECT * FROM Employee WHERE empName LIKE '%B' ;

SELECT * FROM Employee WHERE empName IN '%B' ;

SELECT * FROM Employee WHERE empName BETWEEN 'B%' ;



Which of the following clause is used to sort the records in your result set?

Choices:

HAVING

WHERE

GROUP BY

ORDER BY



Which of the following is an aggregate function?

Choices:

SQRT()

LEN()

COUNT()

UPPER()



You are required to convert the following relation into Third Normal Form (3NF).

SalesRecord (CustomerID, Name, SalesMan, Region)

The above relation contains the following functional dependencies:

1. CustomerID is used as primary key.
2. Each salesman is assigned a unique region.

Answer:



Consider the following relations:

TEACHER (TeacherID, Name, Office, PhoneExt, DeptName, Qualification, Salary, Email)

CLASS (ClassID, CourseCode, DayofWeek, LectureTime, TeacherID)

Perform the following tasks on these relations according to the given requirements.

1. Write SQL code to create an index on table TEACHER on attribute TeacherID.
2. Write SQL code to create an index on table CLASS on composite attributes ClassID and TeacherID.

Answer:



Consider the following table Employee:

empId	empName	empSalary	empDept	empQual
E1001	Ahmad	60000	CS	M.phil
E1002	Ayesha	45000	Mgt	Master
E1003	Ali	24000	CS	Bachelor
E1005	Faiza	45000	Mgt	M.phil
E1006	Nauman	35000	CS	Master

You are required to provide the resultant table after executing the following SQL command:

```
SELECT empName, empDept, MIN(empSalary) AS 'Minimum Salary' FROM Employee GROUP BY empDept;
```

Answer:



Draw a Context level DFD of "Online Clothing store" according to the scenario given below:

1. Customer make a purchase online and get the receipt.
2. Cashier processes the sale.
3. Store Manager updates the inventory system with sales data.

Answer:



Identify the entities from the given scenario:

“PANSHOP” company has decided to take orders online. Customer places the order online and at the time of delivery pays the bill. Order is prepared and delivered by the delivery man to the customer. Customer pays the bill to the delivery man.

Answer:



Consider the following two relations X and Y:

Relation1 = X

UserID	Name	Gender	City
1	Ali	Male	Lahore
2	Momina	Female	Lahore
3	Ali	Male	Multan
4	Fatima	Female	Karachi
5	Fatima	Female	Islamabad

Relation2 = Y

UserID	Name	Gender	City
1	Ali	Male	Lahore
2	Momina	Female	Lahore
5	Fatima	Female	Islamabad
7	Ahmed	Female	Islamabad

Part(a). You are required to apply the intersection operation (\cap) on given relations X and Y and provide the resultant relation $X \cap Y$.

Part(b). Is $X \cap Y = Y \cap X$? Write your answer as Yes or No.



Which of the following is the correct syntax for inner join?

Choices:

SELECT * FROM Student ON Class INNER JOIN ;

SELECT * FROM Student INNER JOIN Class ON Student.StdID=Class.StdID;

SELECT * FROM Student JOIN INNER Class WHERE Student.StdID=Class.StdID;

SELECT * FROM Student INNER Class ON Student.StdID=Class.StdID;



In _____ join, first inner join is performed on the participating tables and then resulting table is projected on the attributes of one table.

Choices:

Theta

Natural

Semi

Outer



While transforming ERD to relational model, in case of many to many relationships another relation is created with _____.

Choices:

 Composite key Primary key of first relation Primary key of other side relation Candidate key

The Cartesian products of below given relations will be _____.

A=(a, b)

B=(1,2)

Choices:

A X B= {(a,1), (a,1), (b,2),(b,2)}

A X B= {(a,2), (a,2), (b,1),(b,1)}

A X B= {(a,a), (b,b), (1,1),(b,1)}

A X B= {(a,1), (a,2), (b,1),(b,2)}



Which of the following dependency is eliminated in the Second Normal(2NF)?

Choices:

Partial

Transitive

Multivalued

External

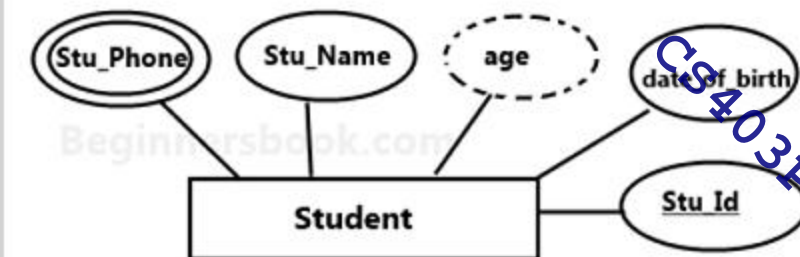


----- command is used to define different constraints on attributes, like primary and foreign keys, check constraint, not null etc.

Choices:

 Insert Table Update Table Add Table Create Table

Which is the derived attribute in the following entity?



Choices:

age

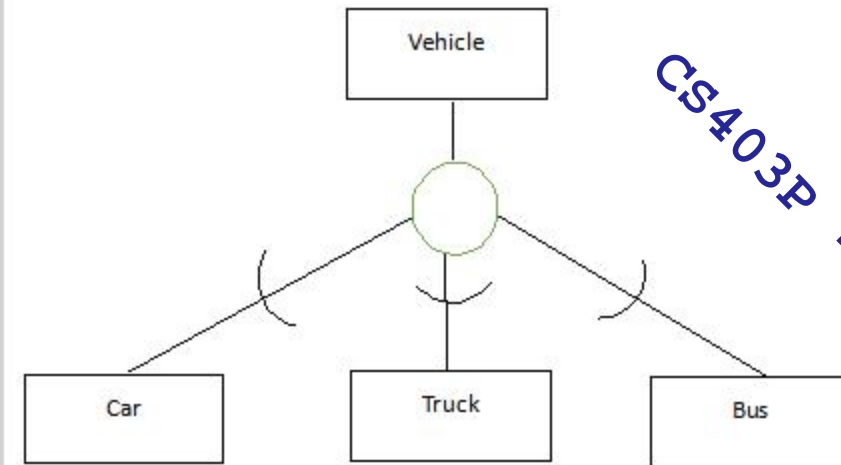
date_of_birth

Stu_Phone

Stu ID



Which of the following are sub type entities in the given diagram?



Choices:

Vehicle, Truck, Bus

Car, Truck, Bus

Vehicle, Truck, Car

Vehicle, Car, Bus



SQL server is a relational database management system, and SQL is a _____.

Choices:

Protocol

Relational database

Database

Language



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