CS & IT



Database Management System

Query Language

DPP - 02 Discussion Notes



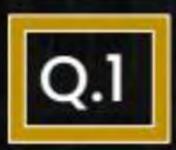
By-Vijay Agarwal sir



TOPICS TO B COVERED

01 Question

02 Discussion



Consider the following keywords.

A. SELECT

B. TOP

C. DISTINCT

 \rightarrow D. FROM \longrightarrow

-E. WHERE -

 \rightarrow F. GROUP BY

 \rightarrow G. HAVING H. ORDER BY

The above keywords are used in the given SQL query below.

SLECT TOP NumberOfRows DISTINCT Col1, Col2

FROM TableNameX, TableNameY

GROUP BY ColumnName

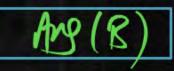
HAVING expression

ORDER BY ColumnName;

Which of the following is the correct query execution order according

to SQL Standard?







DEFGACHB

C. DEFGABCH



ADEFGHCB



D-FROM

E-WHERE

F-GROUP BY

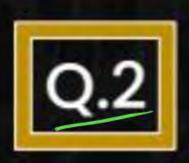
G: Having

A: SELECT

C: DISTINCT

H: ORDER BY

B: TOP



Consider the following employee table



Employees (EMPID, EmpName, Sal, DeptID, ManagerID) assume that EMPID is primary key of relation. which of the following SELECT statements is/are invalid?



SELECT ManagerID, DeptID FROM employees; - Volid



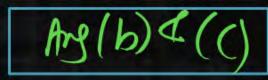
SELECT ManagerID, DISTINCT DeptID FROM employees; - Invalid

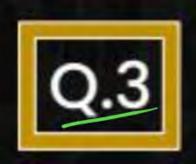


SELECT DISTINCT ManagerID, <u>DISTINCT DeptID</u> FROM employees;



SELECT DISTINCT ManagerID, DeptID FROM employees; -> Valid





Consider the following product relation



Products (PID, PName, Cost)

Assume that PID is a primary key of relation. Which SELECT statement should we used to limit the display of product information to the product having price/cost less than 50?



SELECT PID, PName FROM Products WHERE Cost < 50;



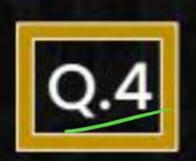
SELECT PID, PName FROM Products WHERE Cost <= 50;



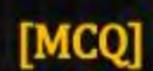
SELECT PID, PName FROM Products WHERE PID IN (SELECT PID FROM Products WHERE Cost <50);



SELECT PID, PName FROM Products GROUP BY PID Having Cost < 50;



The Employees table contains these columns





empID NUMBERS (4)

LastNameVARCHAR (25)

VARCHAR (10)

Suppose that, you want to search for string that contains 'Negi' in the LastName column which SQL statement will be used?



SELECT empID, LastName, JobID FROM employees WHERE LastName LIKE 'Megi'; -> End with Negi.



SELECT empID, lastName, JobID FROM employees WHERE LastName Negi_%';

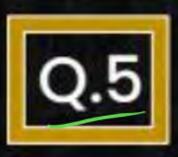


SELECT empID, lastName, JobID FROM employees WHERE LastName LIKE 'Negi'; (). Veg /.



None of these

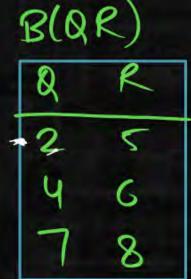
%: Zero (ox) More character - Exactly one Character. 1. Neg LIKE Denote the last Name end with Negi 1 LAST Name LIKE Negi % Negi /.

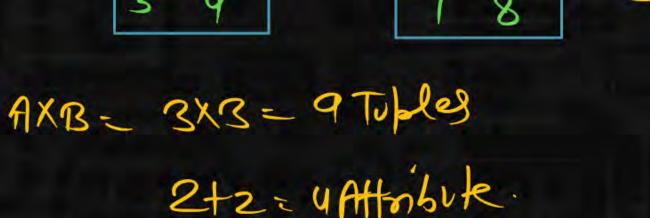


Consider a relation A(P,Q) currently has tuples $\{(1, 2), (1, 3), (3, 4)\}$ and relation B(Q, R) currently has $\{(2, 5), (4, 6), (7, 8)\}$. Then the number of tuples in the result of the SQL query: SELECT * FROM A NATURAL OUTER JOIN B; is (4, 6)?

Angly).

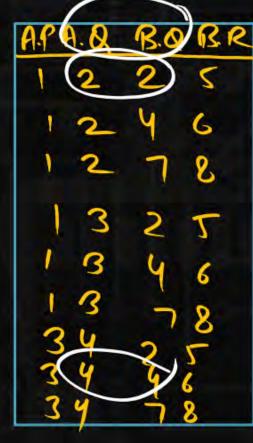
P	Q
1	2
1	3
3	4





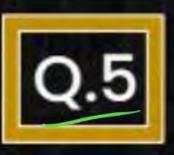




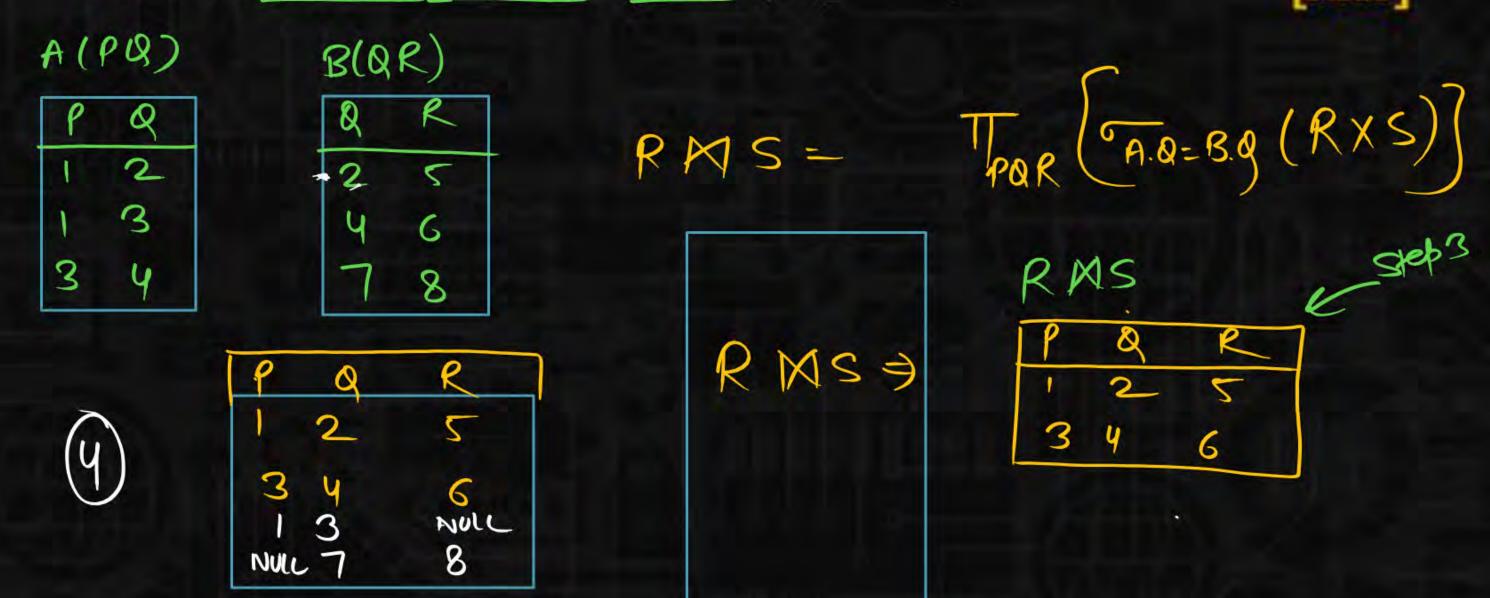


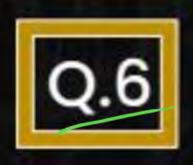
cxp	3	[NAT]
50	Stop.	step)
	1	(RXS)
Par	(A.Q = B.Q	

A.P	A.Q	B.Ø	B.R
1	2	2	5
3	4	4	6



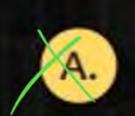
Consider a relation A(P,Q) currently has tuples {(1, 2), (1, 3), (3, 4)} and relation B(Q, R) currently has {(2, 5), (4, 6), (7, 8)}. Then the number of tuples in the result of the SQL query: SELECT * FROM A NATURAL OUTER JOIN B; is_____?





Which of the following statement is/are true about constraints?





Not only for INSERT, Apply for UPDATE of The constraints is applied only to INSERT operation into table. Delete



A foreign key can't contain NULL values.



A column with the unique constraint can store NULLS.

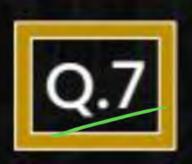


We can have more than one column in a table as a part of primary

So allow NIII

Ay (c) R(D) Fix Gov have NUIL value. So allow NUIL.

Pointagy key Can be Composite (g AB is Primal key)



Consider the following statements



S1: An INSERT statement can add multiple rows per execution to a table.

S2: An UPDATE Statement can modify multiple rows based on multiple condition on a table.

Change the condition of a table.

Choose the correct statements.

INSERT into Table Catter-1, atter-2 orthobotes)

A. Only S_1 is true

@

Only S₂ is true

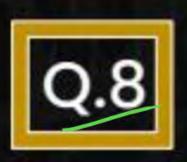
INSFRT into EMP < 1, A, 11000>

INSERT into EMP (2, B, 2000)

Both S₁ is S₂ are true

fre (c)

D. Both S_1 and S_2 are false



Consider the following statements.

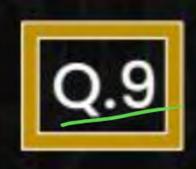


8₁: A DELETE statement can remove rows based on a single condition on a table

S₂: An INSERT statement can add a single row based on multiple condition on a table.

Choose the correct statements

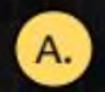
- A. Only S₁ is true
- B. Only S₂ is true
- Both S₁ and S₂ are true
 - D. Both S_1 and S_2 are false



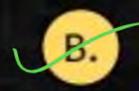
Which of the below statement are true regarding the WHERE and HAVING clause in a SQL statement?

[MSQ]





WHERE and HAVING clause can't be used together in SQL Statement.



The HAVING clause condition can have aggregate function.

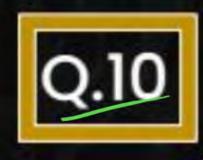


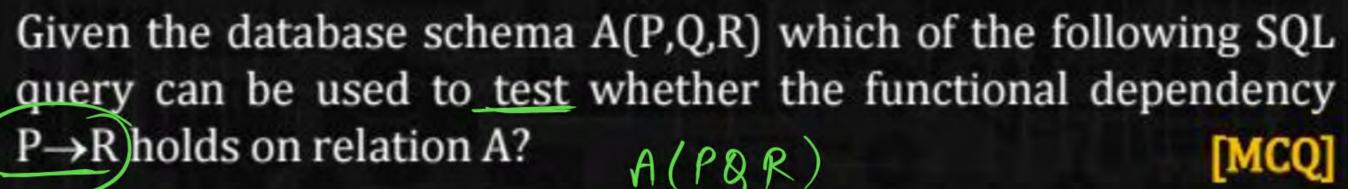
The WHERE clause is used to exclude rows before the grouping of data.



The HAVING clause is used to exclude one or more aggregated results after grouping data.











Select P from A group by P having count (distinct R) >1



Selects P from A group by A having count (distinct R) >1



Select R from A group by P having count (distinct R) >1



None of the above



