



Reg. No.

# Manipal Institute of Technology

## MANIPAL

*Constituent Institute of Manipal University*

IV SEMESTER B. TECH. INTERNAL EXAMINATIONS FEBRUARY 2019

**TEST-1****SUBJECT: DATABASE SYSTEMS (CSE 2204)****Date of Exam: 15-2-2019****10:15 AM – 11:15 AM****Max. Marks: 15****Instructions to Candidates:**

- Answer ALL questions & missing data may be suitably assumed.

- 1A. Which of the following is not correct?  
A. GROUP BY logically partitions the table; no physical rearranging is done.  
B. Each expression in the SELECT must be a single value per group when GROUP BY is used.  
C. It is not possible use WHERE and then use GROUP BY in the same query.  
D. HAVING is to GROUP BY as WHERE is to SELECT 0.5
- 1B. Consider the following relational schema:  
Suppliers(sid:integer, sname:string, city:string, street:string)  
Parts(pid:integer, pname:string, color:string) Supplied(sid:integer, pid:integer, cost:real)  
Consider the following relational query on the above database:  
SELECT S.sname FROM Suppliers S  
WHERE S.sid NOT IN (SELECT C.sid FROM Supplied C  
WHERE C.pid NOT IN (SELECT P.pid FROM Parts P  
WHERE P.color <> 'blue'))  
Assume that relations corresponding to the above schema are not empty. Which one of the following is the correct interpretation of the above query?  
A. Find the names of all suppliers who have not supplied a non-blue part.  
B. Find the names of all suppliers who have supplied only blue parts.  
C. Find the names of all suppliers who have not supplied only blue parts.  
D. Find the names of all suppliers who have supplied a non-blue part. 0.5
- 1C. Which of these operators selects values that match any value in a given list of values?  
A. IN B. LIKE C. BETWEEN D. EXISTS 0.5
- 1D. Table Instructor has 10 rows. It has a non-NULL salary column which is also UNIQUE. The SQL statement, select count(\*) from Instructor where salary > some(select salary from Instructor) gives  
A. 10 B. 9 C. 5 D. 0 0.5
- 1E. Predicate \_\_\_\_\_ can be used to check whether relation X is subset of relation Y or not.  
A. Exits (X – Y)  
B. Exists(Y – X)  
C. Not Exists (X – Y)  
D. Not Exists(Y – X) 0.5
- 2A. The ability to modify the physical schema without changing the logical schema is called \_\_\_\_\_.  
A. Logical Schema  
B. Physical Schema  
C. Logical Data Independence  
D. Physical Data Independence 0.5
- 2B. In designing a database schema, we must ensure that we avoid two major pitfalls such as \_\_\_\_\_ and \_\_\_\_\_.  
A. Redundancy & Incompleteness  
B. Redundancy & Inefficiency  
C. Inefficiency & Interdependence  
D. Interdependence & Atomicity 0.5

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**JL Elias**



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