

## **DBMS ISA**

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Consider two transactions T1 and T2, and four schedules S1, S2, S3, S4 of \* 1 point T1 and T2 as given below: T1 = R1[X] W1[X] W1[Y]T2 = R2[X] R2[Y] W2[Y]S1 = R1[X] R2[X] R2[Y] W1[X] W1[Y] W2[Y]S2 = R1[X] R2[X] R2[Y] W1[X] W2[Y] W1[Y]S3 = R1[X] W1[X] R2[X] W1[Y] R2[Y] W2[Y]S1 = R1[X] R2[Y]R2[X]W1[X] W1[Y] W2[Y]Which of the above schedules are conflict-serializable? S1 and S2 S3 only S2 and S3 S4 only Consider the following transactions with data items P and Q initialized to zero: T1: read (P); read (Q); if P = 0 then Q := Q + 1; write (Q); T2: read (Q); read (P); if Q = 0 then P := P + 1; write (P); Any non-serial interleaving of T1 and T2 for concurrent execution leads to A serializable schedule A schedule that is not conflict serializable A conflict serializable schedule A schedule for which a precedence graph cannot be drawn

Which of the following statements are TRUE about an SQL query?  P: An SQL query can contain a HAVING clause even if it does not a GROUP BY clause Q: An SQL query can contain a HAVING clause only if it has a GROUP BY clause R: All attributes used in the GROUP BY clause must appear in the SELECT clause S: Not all attributes used in the GROUP BY clause need to appear in the SELECT clause
O P and R
P and S
Q and R
Q and S
Which of the following can be addressed by enforcing a referential integrity * 1 point constraint?
All phone numbers must include the area code
Certain fields are required (such as the email address, or phone number) before the record is accepted
Information on the customer must be known before anything can be sold to that customer
Then entering an order quantity, the user must input a number and not some text (i.e., 12 rather than 'a dozen')

Ensuring atomicity is the responsibility of thecomponent * 1 point		
File Manager		
Buffer Manager		
○ DBA		
Transaction Manager		
Consider a relational table R that is in 3NF, but not in BCNF. Which one of * 1 point the following statements is TRUE?  A cell in R holds a set instead of an atomic value.  R has a nontrivial functional dependency X->A, where X is not a superkey and A is a		
non-prime attribute and X is a proper subset of some key.		
R has a nontrivial functional dependency X->A, where X is not a superkey and A is a non-prime attribute and X is not a proper subset of any key.		
R has a nontrivial functional dependency X->A, where X is not a superkey and A is a prime attribute.		
The following functional dependencies are given. * 1 point $AB \rightarrow CD, AF \rightarrow D, DE \rightarrow F, C \rightarrow G, F \rightarrow E, G \rightarrow A$ Which one of the following options is false?		
(AB)+ ={ACDEFG}		
(BG)+={ABCDG}		
(AF}+ = {ACDEFG}		
(AB}+ = {ABCDG}		

Relation R has eight attributes ABCDEFGH. Fields of R contain only atomic values. $F = \{CH \rightarrow G, A \rightarrow BC, B \rightarrow CFH, E \rightarrow A, F \rightarrow EG\}$ is a set of functional dependencies (FDs) so that $F+$ is exactly the set of FDs that hold for R. How many candidate keys does the relation R have?	* 1 point
3	
O 4	
O 5	
O 6	
Consider the following two statements about database transaction schedules:	* 1 point
I. Strict two-phase locking protocol generates conflict serializable schedules that are also recoverable.	
II. Timestamp-ordering concurrency control protocol with Thomas Write Rule can generate view serializable schedules that are not conflict serializable.	
Which of the above statements is/are TRUE?	
Both I and II	
Olonly	
O II only	
Neither I nor II	

Which of the following concurrency control protocols ensure both conflict * 1 point serializability and freedom from deadlock? I. 2-phase locking II. Time-stamp ordering
Both I and II
Olonly
O II only
Neither I nor II

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