



SB-3822

B. Sc. (IT) (Sem. IV) Examination

March / April – 2011

Paper : 402 - RDBMS-I

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दशांश देव निशान्नीवाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="B. Sc. (IT) (Sem. 4)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="402-RDBMS-1"/>	<input type="text"/>
Subject Code No. : <input type="text" value="3"/> <input type="text" value="8"/> <input type="text" value="2"/> <input type="text" value="2"/>	<input type="text" value="Student's Signature"/>
Section No. (1, 2,.....): <input type="text" value="Nil"/>	

1 Answer the following questions in brief (any six) 18

- What is candidate key ? How it is different than primary key ?
- What is insertion anomaly ? Explain with example.
- Aggregate function is used only with group by clause. Yes or No. Justify with examples.
- Explain any 5 rules of CODD's rule.
- What is view ? Is the view physically located in disk ?
- How to revoke different privileges from the user ?
- Which query is executed by the oracle engine first ? Sub query or Main query ? Why ?

2 Attempt any three : 18

- Consider following relation and normalize it upto 2nd normal form. Generate different tables and show the primary key for each relation.

Cricket (team_no, teamname, matchno, matchdate, playerno, playername, country, win_or_loose, no_of_players, bowler_no, bowler_name, overno, noof_overs)

- (b) Construct the ER-diagram for online reservation system for railway. Consider the specialization and other features.
- (c) What is data dictionary ? Why it is important ? Create the data dictionary for the college database considering 4 main tables the college.
- (d) What is Join ? If user is not specifying the join clause which type of join is internally implemented by the oracle ? What is the difference between left and right outer join ?

3 Answer the following questions (any six) **18**

- (a) What is total participation of the entity ? Explain with example.
- (b) The BCNF is always in 3NF. Justify.
- (c) What is the use of to_char and to_date function ?
- (d) In having clause of group by clause, which type of conditions user can give ?
- (e) What is grant command ? Which type of privileges the user can give to another user ?
- (f) Why SQL is called the structured language ?
- (g) Explain IN and NOT IN clause with example.

4 Answer the following questions (any four) **16**

- (a) Write SQL statements by considering following tables (tables are already created)
 - Stud_master (srno, sname, sdiv,s_sem,city,area,bdate)
 - Assign_master(assign_no, assign_name, assign_sub, due_date, no_of_assign)
 - Assign_complt (srno, assign_no, assign_sub, status (C for complete, I for incomplete), submitted_date)
 - (i) Find the students who have not submitted dbms assignments of b division.
 - (ii) Find the student detail who is greater than 15 years and submitted the assignment of cpp.
- (b) Find the functional dependencies exist in all the tables mentioned in A. Is there any partial dependency exist ?

- (c) Explain ALTER table command to add, remove and modify the constraints with the table including example.
 - (d) What is business constraint ? How to give the constraint? Where the constraints are stored in oracle ?
 - (e) There is one database regarding patient and hospital. Assume the required fields and give the answer.
 - (i) Find the charges paid by the patient admitted for 3 days in deluxe room.
 - (ii) Find the patients who admitted in general ward and belonging to Baroda.
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