

MU-142

March-2019

First Year Integrated M.Sc. (CA & IT), Sem.-II

DBMS Using SQL/PLSQL

Time : 2:30 Hours]

[Max. Marks : 70

1. (A) Answer the following : 9
- (1) What are data constraints ? What are the features of foreign key ?
 - (2) Explain any three basic data types of Oracle.
 - (3) Create the table 'Hostel' with given constraints, use appropriate data types:
Fields : Hostel_id (Primary key), HName (must begin with 'H'),
Total_rooms (must be ≥ 10), WardenName (must not be null)
- (B) Consider the following tables : 5
- Team**(Team_id, Team_name, State)
Player(Player_id, PName, Team_id, Runs_Score)
- Write SQL queries for the following:
- (1) Display the names of all players (First letter of each name must be in uppercase)
 - (2) Display the details of the Team table in ascending order of state name.
 - (3) Delete the record of the players whose Runs_score is equal to zero.
 - (4) Add a column to the Player table to store birth date of the player.
 - (5) Rename the Team table as 'Team_Master'.
2. (A) Answer the following : 8
- (1) Why views are created ? What are the types of views ? Explain updatable views.
 - (2) Explain the classification of Oracle functions. Explain with the help of example following functions: FLOOR(), RPAD()
- (B) Answer any **two** : 6
- Considering the Team and Player tables:
- (1) Display Player name and runs scored by each player of 'Gujarat' Team.
 - (2) Display the name of the players who have scored more runs than 'Jai' .
 - (3) Display Team_id wise the total runs scored.

3. (A) Answer any **two** : **8**
- (1) Explain the generic PL/SQL block.
 - (2) Explain PL/SQL execution environment.
 - (3) Write a PL/SQL block to accept Prod_name from the user and print if the price of the product is greater or less than ₹ 500
Product(Prod_Id, Prod_name, Price, Qty)
- (B) Answer the following : **6**
- (1) What are the advantages of PL/SQL ?
 - (2) Write a PL/SQL block to print the name of the most expensive product.
4. (A) Answer any **two** : **6**
- (1) Create a procedure to accept Prod_id and amount from the user. Procedure should modify the price of that product by adding the given amount in the existing price of the product.
 - (2) Differentiate between procedure and function.
 - (3) Create a function to accept Prod_name and return the Qty of that product.
- (B) Answer the following : **8**
- (1) Explain the functionality of open, fetch and close commands of the cursor.
 - (2) Write a PL/SQL block to print Prod_name and price of top three products(price wise).
Product(Prod_Id, Prod_name, Price, Qty)
5. (A) Answer any **two** : **8**
- (1) Explain the physical structure of Oracle database.
 - (2) Explain the types of triggers.
 - (3) Write a PL/SQL block to accept Team_id and print the name of the team. Handle possible exceptions.
Team(Team_id, Team_name, State)
- (B) Answer the following : **6**
- (1) Create a trigger which restricts insertion, updation and deletion in the product table on Saturday and Sunday.
 - (2) Explain any three named exceptions.
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