AH-123

April-2015

F.Y. M.Sc. (CA & IT), Sem.-II

(Integrated)

DBMS using SQL/PLSQL

Time : 3 Hours]   **[Max. Marks : 100**

1. Answer the following :   **20**

    (1) Explain with example the components of SQL.

    (2) Briefly explain : Primary Key, Foreign Key, Unique Key, Not Null and Check Constraint.

    (3) Create the table with given constraints, use appropriate data types :

        Order (Order_id, Odate, amt, cust_name)

        – order_id is Primary key

        – default value in odate should be sysdate

        – amount must be >0

    (4) Consider the 'Order table' and write sql commands for the following :

        (a) Display all the orders placed in month of 'March'

        (b) Display the orders in ascending order of customer name

        (c) Add a new column 'Cust_city'

        (d) Remove the primary key constraint

        (e) Delete all the orders of the customers living in 'Surat'

2. (A) Answer any **Two** :   **10**

    (1) What are single row functions ? How are they classified ? Explain with example any 3 Group functions.

    (2) Explain the types of Joins.

    (3) Why views are created ? Explain updatable views.

  (B) Considering the following tables write the queries :   **10**

    Order (Order_id, Odate, Amt, Cust_id) Customer(Cust_id, Cname, City)

    (a) Display the order details of customer 'John'

    (b) Display the order_ id along with the name of the customer who made that order

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(c) Create a Read Only view of order_id, odate and amount on order table where amt is > 5000

(d) Give user George the right to give other users the right to query the order table

3. Answer any **Four** : **20**

(1) Explain the generic PL/SQL Block.

(2) What are the advantages of PL/SQL ?

(3) Write a PL/SQL block to accept cust_id and print name and city of the customer Handle the appropriate exceptions.

(4) Write a PL/SQL block to accept a year from the user and print how many orders were placed in that year.

(5) Write a PL/SQL block to accept order_id and a date from the user and update the; odate of the given order_id as the date provided by the user.

4. Answer any **Four** : **20**

(1) What is a Cursor ? Name the types of cursor. Explain the general cursor attributes.

(2) Explain Error Handling in PL/SQL. Give the names of any 3 oracle predefined named exceptions.

(3) Create a Procedure which accepts order_id and returns odate using OUT parameter mode. Also write the calling program.

(4) Using Parameterized Cursor write a PL/SQL block to accept amount and print the order details which are < the given amount ( )

(5) Write a PL/SQL block to print the order details of 5 highest amount orders.

5. Answer the following : **20**

(1) Explain the types of triggers.

(2) Explain the physical structure of the oracle database.

(3) Create a trigger which prevents updation and deletion on order table. Insertion is only prevented when odate is < sysdate.

(4) Create a Package consisting of two procedures (Use Procedure Overloading) :

– one procedure accepts cust_name and deletes the record of that customer from the customer table

– other procedure accepts order_id and prints the order date and amt.

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