

## P.G.D.C.A. Semester – II

### DCA-206: Practical Based on DCA - 202 (PL/SQL)

Teaching Scheme (per week)		Teaching Scheme (per semester)		Examination Scheme					
Th. (Hours)	Pr. (Hours)	Total (Hours)	Credit	Internal		External		Total	
Th. (Marks)	Pr. (Marks)	Th. (Marks)	Pr. (Marks)	Th. (Marks)	Pr. (Marks)	Th. (Marks)	Pr. (Marks)	Th. (Marks)	Pr. (Marks)
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### (Practical List)

Create following Three Tables.

#### 1. Salesman

SNUM	SNAME	CITY	COMMISSION
1001	PIYUSH	LONDON	12%
1002	NIRAJ	SURAT	13%
1003	MITI	LONDON	11%
1004	RAJESH	BARODA	15%
1005	ANAND	NEW DELHI	10%
1006	RAM	PATAN	10%
1007	LAXMAN	BOMBAY	09%

SNUM : A Unique number assign to each salesman.

SNAME : The name of salesman.

CITY : The location of salesman.

COMMISSION : The percentage of salesman commission on order.

#### 2. Customer

CNUM	CNAME	CITY	RATING	SNUM
2001	HARDIK	LONDON	100	1001
2002	GITA	ROME	200	1003
2003	LAXIT	SURAT	200	1002
2004	GOVIND	BOMBAY	300	1002
2005	CHANDU	LONDON	100	1001
2006	CHAMPAK	SURAT	300	1007
2007	PRATIK	ROME	100	1004

CNUM : A Unique number assign to each customer.

CNAME : The name of customer.

CITY : The location of customer.

RATING : A level of preference indicator given to this customer.

SNUM : A salesman number assign to this customer.

### 3. Order

ONUM	AMOUNT	ODATE	CNUM	SNUM
3001	18.69	10/03/99	2006	1007
3002	767.19	10/03/99	2001	1001
3003	1900.10	10/03/99	2007	1004
3004	5160.45	10/03/99	2003	1002
3005	1098.25	10/04/99	2006	1007
3006	1713.12	10/04/99	2002	1003
3007	75.75	10/05/99	2004	1002
3008	4723.00	10/05/99	2005	1001
3009	1309.95	10/05/99	2004	1002
3010	9898.87	10/06/99	2001	1001

ONUM : A Unique number assign to each Order.  
 AMOUNT : Amount of order in Rs.  
 ODATE : The date of order.  
 CNUM : The number of customer making the order.  
 SNUM : The number of salesman credited with the sale.

**Solve following request with the help of SQL query.**

1	Produce the order no, amount and date of all orders.
2	Give all the information about all the customers with salesman number 1001.
3	Display the information in the sequence of city, sname, snum, and Commission.
4	List of snum of all salesmen with orders in order table without duplicates.
5	List of all orders for more than Rs. 1000.
6	List out names and cities of all salesmen in London with commission above 10%
7	List all customers excluding those with rating <= 100 or they are located in Rome.
8	List all order for more than Rs. 1000 except the orders of snum,1006 of 10/03/99
9	List all orders taken on 10 <sup>th</sup> March, April and June 1999.
10	List all customers whose names begin with a letter 'C'.
11	List all customers whose names begins with letter 'A' to 'G'
12	List all orders with zero or NULL amount.
13	Find out the largest orders of salesman 1002 and 1007.
14	Calculate the Average and Sum of amount ordered.
15	Count the no. of salesmen currently having orders.
16	Find the largest order taken by each salesman on each date.
17	Find out each customer's smallest order.
18	Find out the customer in alphabetical order whose name begins with 'G'
19	Display the no. of order for each day in the following format. There are "X"(No. of Orders) Orders on "Y"(Date in dd-mon-yy ).
20	Assume each salesperson has a 12% commission. Write a query on the order table that will Produce the Order number, salesman no and amount of commission for that order.
21	List all customers in descending order of rating.
22	Show the name of all customers with their salesman's name.
23	List all orders with the names of their customer and salesman.
24	List all orders by the customers not located in the same city as their salesman.
25	List all customers serviced by salesman with commission above 12%.
26	Find all pairs of customers having the same rating with out duplication.
27	List all customers located in cities where salesman Niraj has customers.
28	List all salesmen who are living in the same city without duplicate rows.
29	Produce the name and city of all the customers with the same rating as Hardik'.
30	Extract all orders of Miti.

31	Find all orders of the salesman who services 'Hardik'
32	List all orders that are greater than the average of April 10, 1999
33	Count the no. of customers with the rating above than the average rating of 'Surat'.
34	Using correlated sub query find the name and number of all customer with rating equal to Maximum for their city.
35	Find all customers having rating greater than any customer in 'Rome'.
36	Find all the customers who have greater rating than every customer in 'Rome'.
37	Select all customers whose rating doesn't match with any rating customer of 'Surat'.
38	Create a union of two queries that shows the names, cities and ratings of all customers. Those with rating of $\geq 200$ should display 'HIGH RATING' and those with $< 200$ should Display 'LOW RATING'
39	Insert a row into salesmen table with the values snum is 1008 salesman name is Rakesh, City is unknown and commission is 14%.
40	Insert a row in to customer table with values London, Pratik a 2008 for the columns city, Name and number.
41	Create another table London staff having same structure as salesman table.
42	Insert all the rows of salesmen table with city London in the London staff table.
43	Create another table Day totals with two attributes date and total and insert rows into this Table from order table.
44	Remove all orders from customer Chandu.
45	Increase the rating of all customers in Rome by 100.
46	Double the commission of all salesmen of London.
47	Delete the salesmen who produce the lowest order for each day.
48	Delete all customers with no current orders.
49	Write a command to add the item-name column to the order table.
50	Give the commands to create our sample tables (salesmen, customer, orders) with all the Necessary constraints like PRIMARY KEY, NOT NULL UNIQUE, FOREIGN KEY.
51	Create a view called Big orders which stores all orders larger than Rs.4000.
52	Create a view that shows all the customers who have the highest ratings.
53	Create a view that shows all the number of salesman in each city.
54	Create a view that shows the average and total orders for each salesman after his name And number.
55	Create a view Show name that shows for each order the order no, amount, salesman name And the customer name.

## **Practical Exam Scheme:**

<b>Practical</b>	<b>Viva</b>	<b>Journal</b>	<b>Total</b>
40 Marks	20 Marks	10 Marks	70 Marks

## **Reference Books:**

1. Introduction to Database System - C. J. Date (7th edition) Low Price Edition
2. SQL, PL/SQL - Evan Bayross (2nd edition) BPB

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