

## **DBMS Lab-7 solution**

**Q1. Configure sqldeveloper and connect to cloud database. Create and insert following values into the tables –** [15 Marks]

Order Table

ord_no	purch_amt	ord_date	customer_id	salesman_id
701	150.5	05-10-2012	3005	5002
702	270.65	10-09-2012	3001	5005
703	65.26	05-10-2012	3002	5001
704	110.5	17-08-2012	3001	5003
705	948.5	05-09-2012	3003	5002
706	2400.6	10-11-2012	3004	5001
707	5760	10-09-2012	3002	5004
708	2480.4	10-11-2012	3005	5003
709	250.45	27-06-2012	3003	5002

Salesman Table

salesman_id	name	city	Commission percent
5001	James Hoog	New York	0.15
5002	Nail Knite	Paris	0.13
5003	Pit Alex	London	0.11
5004	Mc Lyon	Paris	0.14
5005	Lauson Hen	Berlin	0.12

Customer Table

customer_id	cust_name	city
3001	Nick Rimando	New York
3002	Graham Zusi	California
3003	Brad Guzan	London
3004	Fabian Johns	Paris
3005	Geoff Camero	Berlin

**Q2. Display the commissions earned by each salesman**

**[10 Marks]**

[Commission of salesman = total sales (i.e. sum of purch\_amt's for the salesman) \* commission percent of salesman]

```
SELECT S2.SALESMAN_ID, (TOT_SALES*S2.COMMISSION) AS COMM
FROM (SELECT SALESMAN_ID AS SID,SUM(PURCH_AMT) AS TOT_SALES
FROM BITS_350_ORDER GROUP BY SALESMAN_ID),BITS_350_SALESMAN S2 WHERE
SID=S2.SALESMAN_ID;
```

salesman_id	commission
5003	284.999
5005	32.478
5001	369.879
5004	806.4
5002	175.4285

**Q3. Display the name and city of all customers who have placed orders on the same date after the month of September. (Use Join – Explicit or Implicit) [10 Marks]**

Using Implicit JOIN--

```
SELECT DISTINCT S3.CUST_NAME,S3.CITY FROM BITS_350_ORDER S1,
BITS_350_ORDER S2, BITS_350_CUSTOMER S3

WHERE S1.CUSTOMER_ID = S3.CUSTOMER_ID AND S1.ORD_DATE = S2.ORD_DATE
AND S1.ORD_NO != S2.ORD_NO

AND S1.ORD_DATE > '30-09-2012';
```

Using explicit JOIN--

```
SELECT DISTINCT S3.CUST_NAME,S3.CITY FROM

((BITS_350_ORDER S1 INNER JOIN BITS_350_ORDER S2 ON S1.ORD_DATE =
S2.ORD_DATE AND S1.ORD_NO != S2.ORD_NO)

INNER JOIN BITS_350_CUSTOMER S3

ON S1.CUSTOMER_ID = S3.CUSTOMER_ID AND S1.ORD_DATE > '30-09-2012');
```

cust_name	city
Fabian Johns	Paris
Graham Zusi	California
Geoff CAmero	Berlin

**Q4. Write an SQL query to retrieve the name,city and commission percent of Salesman who has the THIRD highest commission percentage. [10 Marks]**

```
SELECT NAME,CITY,COMMISSION FROM

(SELECT ROWNUM AS RNUM,NAME, COMMISSION,CITY FROM

(SELECT NAME,CITY,COMMISSION FROM BITS_350_SALESMAN S1 ORDER BY
COMMISSION DESC)) WHERE RNUM=3;
```

name	city	comm_percent
Nail Knite	Paris	0.13