Assignment

Dbms LAB queries;

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Creating tables:

```
1) SALES_REP1232
CREATE TABLE SALES_REP1232
(
REPCODE INT PRIMARY KEY,
REPNAME VARCHAR(25),
SALARY INT,
COMNAME VARCHAR(45),
foreign key (COMNAME) references COMPANY1232(COMNAME) ON
UPDATE CASCADE ON DELETE CASCADE
);

2) PRODUCT1232
CREATE TABLE PRODUCT1232
(
PCODE VARCHAR(10) PRIMARY KEY,
PNAME VARCHAR(25),
PCOM REAL
);
```

```
3) OWNS1232:
CREATE TABLE OWNS1232
(
COMNAME VARCHAR(45),
PCODE VARCHAR(10),
foreign key (COMNAME) references COMPANY1232 (COMNAME) ON
UPDATE
CASCADE ON DELETE CASCADE,
foreign key (PCODE) references PRODUCT1232 (PCODE) ON
UPDATE CASCADE ON DELETE CASCADE
);
4) COMPANY1232:
CREATE TABLE COMPANY1232
(
COMNAME VARCHAR(45) PRIMARY KEY,
COMHQ VARCHAR(45)
);
```

```
5 ). SALES1232:

CREATE TABLE SALES1232
(

REPCODE INT,

PCODE VARCHAR(10),

QTYSOLD INT,

foreign key (REPCODE) references sales_REP1232 (REPCODE) ON UPDATE

CASCADE ON DELETE CASCADE,

foreign key (PCODE) references PRODUCT1232 (PCODE) ON UPDATE CASCADE ON

DELETE CASCADE
);
```

ENTERIES AFTER INSERTION IN THE TABLE

```
mysql> select * from sales_rep1232;
  REPCODE :
                REPNAME | SALARY
                                            COMNAME
                                            ABC CORPORATION
ABC CORPORATION
DGL FOOD PRODUCTS
DGL FOOD PRODUCTS
                                45000
35000
        100
101
                PRERIT
                 AAMIR
        102
                SAIF
                                30000
                RAHUL
        103
                                 40000
4 rows in set (0.00 sec)
mysql> select * from company1232;
: COMNAME
                              COMHQ
  ABC CORPORATION : MUMBAI DGL FOOD PRODUCTS : KOLKATA
2 rows in set (0.00 sec)
mysql> select * from product1232;
 PCODE ! PNAME
                                        PCOM
  P1
P2
P3
P4
              Health Drink
                                         0.3
                                       0.1
0.15
             Butter
BABY Food
              TINNED MUSHROOM
                                       1000
4 rows in set (0.00 sec)
mysql> select * from owns1232;
COMNAME
                              PCODE
  ABC CORPORATION
ABC CORPORATION
ABC CORPORATION
DGL FOOD PRODUCTS
DGL FOOD PRODUCTS
DGL FOOD PRODUCTS
                               P2
P3
P1
P2
P4
6 rows in set (0.00 sec)
mysql>
nysql> select * from sales1232;
  REPCODE : PCODE : QTYSOLD
       100
                P3
                                  20
                P2
P3
P1
P4
P4
       100
101
                                  250
                                  400
200
       102
102
```

103

nysq1>

7 rows in set (0.00 sec)

QUERIES

1. LIST THE PRODUCT WISE SALE OF ABC CORPORATION.

select p.PNAME,sum(s.QTYSOLD) as Total from PRODUCT1232 as p,SALES1232 as s where p.PCODE in (select PCODE from OWNS1232 where COMNAME='ABC CORPORATION') and s.REPCODE in(select REPCODE from SALES_REP1232 where COMNAME='ABC CORPORATION') and s.PCODE=p.PCODE group by(p.PNAME);

2. LIST THE COMMISSION EARNED BY SELLING PRODUCT P₁.

select re.COMNAME,sum(s.QTYSOLD*p.PCOM) from SALES1232 as s,PRODUCT1232 as p,SALES_REP1232 as re where p.PCODE='P1' and s.REPCODE=re.REPCODE and p.PCODE=s.PCODE group by (re.COMNAME);

3. LIST THE REPRESENTIVES WORKING IN 'DGL FOOD PRODUCTS'.

select REPNAME fromSALES_REP1232 where COMNAME='DGL FOOD PRODUCTS';

```
mysql> select REPNAME from SALES_REP1232 where COMNAME='DGL FOOD PRODUCTS';

+-----+
| REPNAME |
+-----+
| SAIF |
| RAHUL |
+-----+
| rows in set (0.00 sec)
```

4. LIST THE SIMILAR PRODUCTS THAT ARE MANUFACTURED BY DIFFERENT COMPANIES.

select PNAME from PRODUCT1232 where PCODE in (select pcode from owns1232 group by(pcode) having count(pcode)>1);

5. LIST THE REPRESENTATIVES WHO ARE SELLING THE SIMILAR PRODUCTS OF DIFFERENT COMPANIES.

select REPNAME from SALES_REP1232 where REPCODE in (select REPCODE from SALES1232 where PCODE in (select PCODE from OWNS1232 group by(PCODE) having count(PCODE)>1));

6. LIST THE EARNING FROM BUTTER SELLING.

select sum(QTYSOLD)*PCOM as earning,PCOM from sales1232 join product1232 on product1232.pcode=sales1232.pcode and pname='Butter';

```
mysql> select sum(QTYSOLD)*PCOM as earning,PCOM from sales1232 join product1232 on product1232.pcode=sales1232.pcode and
+-----+
! earning | PCOM |
+-----+
| 30 | 0.1 |
+-----+
| 1 row in set (0.00 sec)
mysql>
```

7. LIST THE PRODUCT SOLD BY REPRESENTATIVE AAMIR.

select pname from product1232 where pcode in(select pcode from sales_rep1232 join sales1232 on sales_rep1232.repcode=sales1232.repcode and repname='AAMIR');

8. LIST THE REPRESENTATIVES SELLING ONLY ONE PRODUCT.

select repname from sales_rep1232 where repcode in (select repcode from sales1232 group by (repcode) having count(repcode)=1);

```
mysql> select repname from sales_rep1232 where repcode in ( select repcode from sales1232 group by (repcode) having count(repco

-> #

+-----+

! repname !

+------+

! RAHUL |

+------+

1 row in set (0.00 sec)
```

9. LIST THE INCOME OF THAT REPRESENTATIVE WHO IS DRAWING MAXIMMUM SALARY(INCOME=SALARY+COMMISSION*QUANTITY SOLD).

select salary+q_total from sales_rep1232 natural join (select repcode,sum(qtysold*pcom) as q_total from sales1232 natural join product1232 group by (repcode)) as m having max(salary);

10. LIST THE REPRESENTATIVE NAME, COMPANY NAME, PRODUCT NAME AND SALE OF PRODUCT WHOSE COMMISSION IS MINIMUM.

select repname,comname,pname,pcom*qtysold from product1232 natural join sales1232 natural join sales_rep1232 where pcom=(select min(pcom) from product1232);

-> #	ct repname,comnam			product1232	natural j	oin sales12	32 natural	join	sales_rep1232	where	pcom=
	comname		pcom*qtysold	•							
AAMIR	ABC CORPORATION			•							
1 row in se	t (0.00 sec)	+	 	•							
11											

11. LIST THE PRODUCT DETAILS OF ABC CORPORATION.

select product1232.pcode as product_code,product1232.pname as product_name,product1232.pcom as commission from product1232 join owns1232 on product1232.pcode =owns1232.pcode and owns1232.comname='abc corporation';

	elect pcode,pna +		-	roduct1232	natural	join	owns1232	where	comname='ab	c corporat	ion';
I pcode	pname +	pcom									
P1 P2 P3	Health Drink	0.3 0.1 0.15									
	n set (0.00 sec										

12. LIST THE COMPANY DETAILS IN WHICH THE REPRESENTATIVE DRAWING MAXIMUM SALARY.

select sales_rep1232.comname as company_name,product1232.pname as products_manufactured_are,company1232.comhq as headquarter_in from sales_rep1232 join company1232 on sales_rep1232.comname=company1232.comname join owns1232 on owns1232.comname= sales_rep1232.comname join product1232 on product1232.pcode =owns1232.pcode and sales_rep1232.salary in (select max(sales_rep1232.salary) from sales_rep1232);

	sq1> SELECT SALES_REP1232.COMNAME AS									
	> COMPANY_NAME,PRODUCT1232.PNAME AS									
-> PRODUCTS_MAN	-> PRODUCTS_MANUFACTURED_ARE,COMPANY1232.COMHQ AS									
-> HEADQUARTER	_IN FROM SALES_REP1232 JOIN (COMPANY1232								
	1232.COMNAME=COMPANY1232.COM									
	OWNS1232.COMNAME=	manie ovin								
-> SALES_REP123		NUICAGO DOODE								
	1232 ON PRODUCT1232.PCODE =0									
	P1232.SALARY IN (SELECT MAX)	(SALES_REP1232.SAI	ARY)							
-> FROM SALES_F	REP1232);									
+		·	٠							
: COMPANY NAME :	PRODUCTS_MANUFACTURED_ARE	: HEADQUARTER IN :								
+										
: ABC CORPORATION :	Health Drink	MIIMROT !								
: ABC CORPORATION : Butter : MUMBAI :										
: ABC CORPORATION :		: MUMBAI :								
+			-							
3 rows in set (0.00	sec)									
7.										

13. LIST THE COMMISSION ON MAXIMUM SELLING PRODUCT.

select product1232.pname as max_selling_product,sum(sales1232.qtysold) as quantity_sold ,sum(sales1232.qtysold) *product1232.pcom as total_commission from product1232 join sales1232 on sales1232.pcode=product1232.pcode group by sales1232.pcode order by quantity_sold desc limit 1;

	?.PCODE=PRODUCT1232.PCO	DE GROUP BY SALI	ES1232.PCODE ORDER B		,SUM(SALES1232.QTYSOLD)	*PRODUCT1232.PCOM AS	3 TOTAL_COMMISSION	FROM PR
	MAX_SELLING_PRODUCT	QUANTITY_SOLD	TOTAL_COMMISSION					
	TINNED MUSHROOM	700						
1	row in set (0.00 sec)							

14. LIST THE TOTAL QUANTITY OF PRODUCT SOLD BY ABC CORPORATION.

select sum(sales1232.qtysold) as total_qt_sold_by_abc_corporation from sales_rep1232 join owns1232 on sales_rep1232.comname=owns1232.comname and sales_rep1232.comname='abc corporation' join sales1232 on sales_rep1232.repcode= sales1232.repcode and sales1232.pcode=owns1232.pcode;

15. LIST THE TOTAL SALE OF THAT PRODUCT WHICH IS HAVING MAXIMUM COMMISSION ON IT.

select product1232.pname as product_having_max_commission, sum(sales1232.qtysold) as total_sale from sales1232 join product1232 on sales1232.pcode=product1232.pcode where product1232.pcom in (select max(product1232.pcom) from product1232);

	TOTAL_SALE FR	JING_MAX_COMMISSION, NO SALES1232 JOIN PRODUCT1232 ON SALES1232.PCODE=PRODUCT1232.PCODE WHERE PRODUCT1232.PCOM IN (SELECT MAX <product1232.f< th=""></product1232.f<>
PRODUCT_HAVING_MAX_COMMISSION	TOTAL_SALE	
! TINNED MUSHROOM	1 700 l	
1 row in set (0.00 sec)	++	

16. LIST THE PRODUCT OF MAXIMUM SELLING PRODUCTS OF DGL FOOD PRODUCTS ALONG WITH ITS QTYSOLD AND REPRESENTATIVE CODE.

select p.pname,s.qtysold,s.repcode from sales1232 as s,sales_rep1232 as re,product1232 as p where p.pcode=s.pcode and s.repcode=re.repcode and re.comname='dgl food products' and s.pcode in(select pcode from (select pcode,sum(qtysold) as qs from sales1232 group by pcode order by pcode desc) as tmp having max(qs));

17. LIST THE EARNING BY SELLING BABY FOOD.S

select sum(product1232.pcom*sales1232.qtysold) as earning_by_selling_baby_food from product1232 join sales1232 on sales1232.pcode=product1232.pcode and product1232.pname='baby food';

