**Assignment – 19**  
Views.

**1)** Create a view that shows all of the customers who have the highest ratings.  
**Answer -**

**CREATE VIEW h\_rated\_cust AS**

**SELECT \***

**FROM customers**

**WHERE rating=**

**(SELECT max(rating)**

**FROM customers);**

**SELECT \***

**FROM h\_rated\_cust;**

CNUM    CNAME    CITY    RATING    SNUM  
  
2004    Grass    Berliln    300    1002  
2008    Cisneros    San Jose    300    1007  
  
  
**2)** Create a view that shows the number of salespeople in each city.  
**Answer -**

**SELECT \***

**FROM h\_rated\_cust;**

**CREATE VIEW tns\_city AS**

**SELECT city,**

**count(city) "NO. OF SALES PEOPLE"**

**FROM salespeople**

**GROUP BY city;**

**SELECT \***

**FROM tns\_city;**

CITY    NO. OF SALES PEOPLE  
  
LONDON    2  
BARCELONA    1  
SAN JOSE    1  
SAN JOSE    1  
NEWYORK    1  
  
  
**3)** Create a view that shows the average and total orders for each salesperson after  
his or her name. Assume all names are unique.

**Answer –**

**CREATE VIEW AV\_TOT\_SAL AS**

**SELECT sname,**

**avg(onum) AVERAGE,**

**count(onum) "TOTAL ORDERS"**

**FROM salespeople**

**JOIN orders using(snum)**

**GROUP BY sname;**

**SELECT \***

**FROM AV\_TOT\_SAL;**

SNAME    AVERAGETOTAL ORDERS  
  
Motika    3002    1  
Axelrod    3009    1  
Peel    3007.33333    3  
Serres    3007.33333    3  
Rifkin    3003.5    2  
  
  
**4)** Create a view that shows each salesperson with multiple customers.  
**Answer -**

**CREATE VIEW m\_c AS**

**SELECT sname,**

**cname**

**FROM salespeople**

**JOIN customers USING (snum);**

**SELECT \***

**FROM M\_C;**

SNAME CNAME  
  
Peel    Hoffman  
Axelrod    Giovanni  
Serres    Grass  
Peel    Clemens  
Rifkin    Cisneros  
Serres    Pereira  
Serres    Liu  
  
HIERARCHICAL QUERY SOLUTION:-

**SELECT deptno,**

**LTRIM(MAX(SYS\_CONNECT\_BY\_PATH (ename, ',')),',') EMP\_STRING**

**FROM (SELECT empno, ename,deptno, row\_number() OVER (PARTITION BY deptno**

**ORDER BY rownum) rn FROM EMP) CONNECT BY deptno =**

**PRIOR deptno**

**AND rn = PRIOR rn+1**

**START WITH rn =1**

**GROUP BY deptno**

**ORDER BY deptno;**

DEPTNO    EMP\_STRING  
  
10    CLARK,KING,MILLER  
20    SMITH,JONES,SCOTT,ADAMS,FORD  
30    ALLEN,WARD,MARTIN,BLAKE,TURNER,JAMES