Assignment – 9
Querying Multiple Tables at Once.

1) Write a query that lists each order number followed by the name of the customer who made the order.

Query: select Onum,Cname from customers left outer join orders

    -> on orders.Cnum = customers.Cnum;

```
D3_93025_Omkar>select Onum,Cname from customers left outer join orders
    -> on orders.Cnum = customers.Cnum;
+------+----------+
| Onum | Cname    |
+------+----------+
| 3003 | Hoffman  |
| 3009 | Giovanni |
| 3005 | Liu      |
| 3010 | Grass    |
| 3007 | Grass    |
| 3011 | Clemens  |
| 3008 | Clemens  |
| 3006 | Cisneros |
| 3001 | Cisneros |
| 3002 | Pereira  |
+------+----------+
```

2) Write a query that gives the names of both the salesperson and the customer for each order along with the order number.

Query 1 : select Sname ,Cname ,Onum from customers,orders,salespeople
    -> where customers.Cnum = orders.Cnum and orders.Snum = salespeople.Snum;

```
D3_93025_Omkar>select Sname ,Cname ,Onum from customers,orders,salespeople
    -> where customers.Cnum = orders.Cnum and orders.Snum = salespeople.Snum;
+---------+----------+------+
| Sname   | Cname    | Onum |
+---------+----------+------+
| Peel    | Hoffman  | 3003 |
| Axelrod | Giovanni | 3009 |
| Serres  | Liu      | 3005 |
| Serres  | Grass    | 3010 |
| Serres  | Grass    | 3007 |
| Peel    | Clemens  | 3011 |
| Peel    | Clemens  | 3008 |
| Rifkin  | Cisneros | 3006 |
| Rifkin  | Cisneros | 3001 |
| Motika  | Pereira  | 3002 |
+---------+----------+------+
```

    Query 2:
select Sname ,Cname ,Onum from customers
    -> left outer join orders
    -> on orders.Cnum = customers.Cnum
    -> left outer join salespeople
        -> on salespeople.Snum = orders.Snum;

```
D3_93025_Omkar>select Sname ,Cname ,Onum from customers
    -> left outer join orders
    -> on orders.Cnum = customers.Cnum
    -> left outer join salespeople
    -> on salespeople.Snum = orders.Snum;
+---------+----------+------+
| Sname   | Cname    | Onum |
+---------+----------+------+
| Peel    | Hoffman  | 3003 |
| Axelrod | Giovanni | 3009 |
| Serres  | Liu      | 3005 |
| Serres  | Grass    | 3010 |
| Serres  | Grass    | 3007 |
| Peel    | Clemens  | 3011 |
| Peel    | Clemens  | 3008 |
| Rifkin  | Cisneros | 3006 |
| Rifkin  | Cisneros | 3001 |
| Motika  | Pereira  | 3002 |
+---------+----------+------+
```

3) Write a query that produces all customers serviced by salespeople with a commission above 12%. Output the customer's name, the salesperson's name, and the salesperson's rate of commission.

Query:
select cname,sname,comm from customers
left outer join salespeople
on (salespeople.snum = customers.snum)
where comm>0.12;

```
+----------+--------+------+
| cname    | sname  | comm |
+----------+--------+------+
| Liu      | Serres | 0.13 |
| Grass    | Serres | 0.13 |
| Cisneros | Rifkin | 0.15 |
+----------+--------+------+
```

4) Write a query that calculates the amount of the salesperson's commission on each order by a customer with a rating above 100.
Query:

select s.Sname ,(o.Amt * S.Comm) ,o.Onum from customers c left outer join orders o
    -> on o.Cnum = c.Cnum
    -> left outer join salespeople s
    -> on s.Snum = o.Snum
    -> where c.Rating > 100

-> order by 3;

```
D3_93025_Omkar>select s.Sname ,(o.Amt * S.Comm) ,o.Onum from customers c left outer join orders o
    -> on o.Cnum = c.Cnum
    -> left outer join salespeople s
    -> on s.Snum = o.Snum
    -> where c.Rating > 100
    -> order by 3;
+---------+-------------------+------+
| Sname   | (o.Amt * S.Comm)  | Onum |
+---------+-------------------+------+
| Rifkin  |              2.80 | 3001 |
| Serres  |            670.86 | 3005 |
| Rifkin  |            164.72 | 3006 |
| Serres  |              9.85 | 3007 |
| Axelrod |            171.32 | 3009 |
| Serres  |            170.29 | 3010 |
+---------+-------------------+------+
6 rows in set (0.01 sec)
```