SQL 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.

```
D6_87105_Pawan@>select Onum, Cname from Customers, Orders
    -> where Orders.Cnum = Customers.Cnum;
ERROR 1046 (3D000): No database selected
D6_87105_Pawan@>use classwork
Database changed
D6_87105_Pawan@>select Onum, Cname from Customers, Orders
    -> where Orders.Cnum = Customers.Cnum;
+------+----------+
| Onum | Cname    |
+------+----------+
| 3001 | Cisneros |
| 3003 | Hoffman  |
| 3002 | Pereira  |
| 3005 | Liu      |
| 3006 | Cisneros |
| 3009 | Giovanni |
| 3007 | Grass    |
| 3008 | Clemens  |
| 3010 | Grass    |
| 3011 | Clemens  |
+------+----------+
10 rows in set (0.00 sec)
```

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

```
D6_87105_Pawan@>select Sname, Cname, Onum from Orders, Customers, Salespeopl
e
    -> where Orders.Snum = Customers.Snum and
    -> Orders.Snum = Salespeople.Snum;
+----------+-----------+-------+
| Sname    | Cname     | Onum  |
+----------+-----------+-------+
| Rifkin   | Cisneros  | 3001  |
| Peel     | Clemens   | 3003  |
| Peel     | Hoffman   | 3003  |
| Motika   | Pereira   | 3002  |
| Serres   | Grass     | 3005  |
| Serres   | Liu       | 3005  |
| Rifkin   | Cisneros  | 3006  |
| Axelrod  | Giovanni  | 3009  |
| Serres   | Grass     | 3007  |
| Serres   | Liu       | 3007  |
| Peel     | Clemens   | 3008  |
| Peel     | Hoffman   | 3008  |
| Serres   | Grass     | 3010  |
| Serres   | Liu       | 3010  |
| Peel     | Clemens   | 3011  |
| Peel     | Hoffman   | 3011  |
+----------+-----------+-------+
16 rows in set (0.01 sec)
```

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.

```
D6_87105_Pawan@>select Sname, Cname, Comm from Customers, Salespeople
    -> where Customers.Snum = Salespeople.Snum and Comm > .12;
+--------+-----------+-------+
| Sname  | Cname     | Comm  |
+--------+-----------+-------+
| Serres | Liu       | 0.13  |
| Serres | Grass     | 0.13  |
| Rifkin | Cisneros  | 0.15  |
+--------+-----------+-------+
3 rows in set (0.01 sec)
```

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

```
D6_87105_Pawan@>select
    ->        orders.Onum as "Order Number",
    ->        orders.Amt as "Order Amount",
    ->      salespeople.Sname as "Salesperson Name",
    ->        orders.Amt * salespeople.Comm as "Commission Amount"
    ->        from orders,customers,salespeople
    ->      where
    ->        orders.Cnum=customers.Cnum and
    ->        orders.Snum=salespeople.Snum and
    ->        customers.Rating > 100;
+--------------+--------------+------------------+-------------------+
| Order Number | Order Amount | Salesperson Name | Commission Amount |
+--------------+--------------+------------------+-------------------+
|         3010 |      1309.95 | Serres           |            170.29 |
|         3007 |        75.75 | Serres           |              9.85 |
|         3005 |       516.45 | Serres           |             67.14 |
|         3006 |      1098.16 | Rifkin           |            164.72 |
|         3001 |        18.69 | Rifkin           |              2.80 |
|         3009 |      1713.23 | Axelrod          |            171.32 |
+--------------+--------------+------------------+-------------------+
6 rows in set (0.03 sec)
```