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.

```
mysql> SELECT ORDERS.Onum, CUSTOMERS.Cname
    -> FROM ORDERS
    -> JOIN CUSTOMERS ON 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 (0.01 sec)
```

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

```
mysql> SELECT ORDERS.Onum, SALESPEOPLE.Sname AS Salesperson, CUSTOMERS.Cname AS Customer
    -> FROM ORDERS
    -> JOIN SALESPEOPLE ON ORDERS.Snum = SALESPEOPLE.Snum
    -> JOIN CUSTOMERS ON ORDERS.Cnum = CUSTOMERS.Cnum;
+------+-------------+----------+
| Onum | Salesperson | Customer |
+------+-------------+----------+
| 3003 | Peel        | Hoffman  |
| 3009 | Axelrod     | Giovanni |
| 3005 | Serres      | Liu      |
| 3010 | Serres      | Grass    |
| 3007 | Serres      | Grass    |
| 3011 | Peel        | Clemens  |
| 3008 | Peel        | Clemens  |
| 3006 | Rifkin      | Cisneros |
| 3001 | Rifkin      | Cisneros |
| 3002 | Motika      | Pereira  |
+------+-------------+----------+
10 rows in set (0.00 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.

```
mysql> SELECT CUSTOMERS.Cname, SALESPEOPLE.Sname, SALESPEOPLE.Comm
    -> FROM CUSTOMERS
    -> JOIN SALESPEOPLE ON CUSTOMERS.Snum = SALESPEOPLE.Snum
    -> WHERE SALESPEOPLE.Comm > 0.12;
+----------+---------+------+
| Cname    | Sname   | Comm |
+----------+---------+------+
| Liu      | Serres  | 0.13 |
| Grass    | Serres  | 0.13 |
| Cisneros | Rifkin  | 0.15 |
+----------+---------+------+
3 rows in set (0.00 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.

```
mysql> select Onum, Cname, Comm*Amt as Comm_Amt from orders, customers, salespeople
    ->        where salespeople.snum = orders.snum and orders.cnum = customers.cnum and customers.rating > 100;
+------+----------+--------------------+
| Onum | Cname    | Comm_Amt           |
+------+----------+--------------------+
| 3010 | Grass    | 170.29348740601563 |
| 3007 | Grass    |  9.847499638795853 |
| 3005 | Liu      |  670.8585007836809 |
| 3006 | Cisneros |   164.724011672497 |
| 3001 | Cisneros |  2.803500191509727 |
| 3009 | Giovanni |  171.3230005997866 |
+------+----------+--------------------+
6 rows in set (0.00 sec)
```