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.
Ans: -

```
mysql> SELECT o.Onum AS Order_Number, c.Cname AS Customer_Name
    -> FROM orders o
    -> JOIN customers c ON o.Cnum = c.Cnum;
+--------------+---------------+
| Order_Number | Customer_Name |
+--------------+---------------+
|         3003 | Hoffman       |
|         3009 | Giovanni      |
|         3005 | Liu           |
|         3007 | Grass         |
|         3010 | Grass         |
|         3008 | Clemens       |
|         3011 | Clemens       |
|         3002 | Pereira       |
|         3001 | Cisneros      |
|         3006 | Cisneros      |
+--------------+---------------+
10 rows in set (0.03 sec)
```


2) Write a query that gives the names of both the salesperson and
the customer for each order along with the order number.
Ans: -
```
mysql> SELECT o.Onum AS Order_Number, c.Cname AS Customer_Name,
s.Sname AS Salesperson_Name
    -> FROM orders o
    -> JOIN customers c ON o.Cnum = c.Cnum
    -> JOIN salespeople s ON o.Snum = s.Snum;
+--------------+---------------+------------------+
| Order_Number | Customer_Name | Salesperson_Name |
+--------------+---------------+------------------+
|         3001 | Cisneros      | Rifkin           |
|         3002 | Pereira       | Motika           |
|         3003 | Hoffman       | Peel             |
|         3005 | Liu           | Serres           |
|         3006 | Cisneros      | Rifkin           |
|         3007 | Grass         | Serres           |
```

```
|          3008 | Clemens        | Peel             |
|          3009 | Giovanni       | Axelrod          |
|          3010 | Grass          | Serres           |
|          3011 | Clemens        | Peel             |
+---------------+----------------+------------------+
10 rows in set (0.02 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.
Ans: -
```
mysql> SELECT c.Cname AS Customer_Name, s.Sname AS Salesperson_Name,
s.Comm AS Commission_Rate
    -> FROM customers c
    -> JOIN orders o ON c.Cnum = o.Cnum
    -> JOIN salespeople s ON o.Snum = s.Snum
    -> WHERE s.Comm > 12;
+---------------+------------------+-----------------+
| Customer_Name | Salesperson_Name | Commission_Rate |
+---------------+------------------+-----------------+
| John Doe      | John             |           15.00 |
| Jane Smith    | Bob              |           13.25 |
| Lucy Green    | Bob              |           13.25 |
+---------------+------------------+-----------------+
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.
Ans: -
```
mysql> SELECT o.Onum AS Order_Number, c.Cname AS Customer_Name, s.Sname AS
Salesperson_Name,
    ->         o.Amt * (s.Comm / 100) AS Commission_Amount
    -> FROM orders o
    -> JOIN customers c ON o.Cnum = c.Cnum
    -> JOIN salespeople s ON o.Snum = s.Snum
    -> WHERE c.Rating > 100;
+--------------+---------------+------------------+-------------------+
| Order_Number | Customer_Name | Salesperson_Name | Commission_Amount |
+--------------+---------------+------------------+-------------------+
|         3009 | Giovanni      | Axelrod          |          1.713230 |
|         3005 | Liu           | Serres           |          6.708585 |
|         3007 | Grass         | Serres           |          0.098475 |
|         3010 | Grass         | Serres           |          1.702935 |
|         3001 | Cisneros      | Rifkin           |          0.028035 |
|         3006 | Cisneros      | Rifkin           |          1.647240 |
+--------------+---------------+------------------+-------------------+
6 rows in set (0.00 sec)
```