<u>Assignment – 19</u>
<u>Views.</u>

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

```
mysql> CREATE OR REPLACE VIEW c_with_max_rating AS
    -> SELECT cnum, cname FROM customers WHERE rating = (SELECT MAX(rating) FROM customers);
Query OK, 0 rows affected (0.01 sec)

mysql> SELECT * FROM store.c_with_max_rating;
+------+----------+
| cnum | cname    |
+------+----------+
| 2004 | Grass    |
| 2008 | Cisneros |
+------+----------+
2 rows in set (0.00 sec)
```

2) Create a view that shows the number of salespeople in each city.

```
mysql> CREATE VIEW salespeople_city AS
    -> SELECT city, COUNT(sname) FROM salespeople GROUP BY city;
Query OK, 0 rows affected (0.01 sec)

mysql> SELECT * FROM salespeople_city   ;
+-----------+--------------+
| city      | COUNT(sname) |
+-----------+--------------+
| London    |            2 |
| San Jose  |            2 |
| Barcelona |            1 |
| New York  |            1 |
+-----------+--------------+
4 rows in set (0.00 sec)
```

3) Create a view that shows the average and total orders for each salesperson after his or her name. Assume all names are unique.

```
mysql> CREATE OR REPLACE VIEW salespeople_avg_total AS
    -> SELECT s.sname, (SELECT AVG (total_count) FROM (SELECT COUNT(*) AS total_count FROM orders GROUP
BY snum) AS sub) AS avg_order_per_salespeople, COUNT(onum) AS total_orders  FROM salespeople s
    -> JOIN orders o  ON s.snum=o.snum
    -> GROUP BY s.sname;
Query OK, 0 rows affected (0.01 sec)

mysql> SELECT * FROM salespeople_avg_total;
+---------+---------------------------+--------------+
| sname   | avg_order_per_salespeople | total_orders |
+---------+---------------------------+--------------+
| Peel    |                    1.6000 |            1 |
| Serres  |                    1.6000 |            3 |
| Motika  |                    1.6000 |            1 |
| Rifkin  |                    1.6000 |            2 |
| Axelrod |                    1.6000 |            1 |
+---------+---------------------------+--------------+
5 rows in set (0.00 sec)
```

4) Create a view that shows each salesperson with multiple customers.

```
mysql> CREATE VIEW total_customer_per_salesperson AS
    -> SELECT s.sname,COUNT(o.cnum) FROM orders o
    -> JOIN salespeople s
    -> ON o.snum=s.snum
    -> GROUP BY s.sname;
Query OK, 0 rows affected (0.01 sec)

mysql> SELECT * FROM total_customer_per_salesperson;
+---------+---------------+
| sname   | COUNT(o.cnum) |
+---------+---------------+
| Peel    |             1 |
| Serres  |             3 |
| Motika  |             1 |
| Rifkin  |             2 |
| Axelrod |             1 |
+---------+---------------+
5 rows in set (0.00 sec)
```