1. create a view for those salespersons belong to the city 'New York'.

mysql> create view saleman_view as select salesman_id,name,city,commission from salesman where city ="New york";

Query OK, o rows affected (o.o1 sec)

```
mysql> mysql> select * from saleman_view; +-----+ | salesman_id | name | city | commission | +-----+ | 5001 | James hoog | New York | 0.15 | +-----+ | 1 row in set (0.01 sec)
```

2. create a view for all salespersons. Return salesperson ID, name, and city. mysql> create view saleman_view1 as select salesman_id,name,city from salesman; Query OK, o rows affected (0.01 sec)

+----+

6 rows in set (0.00 sec)

3. create a view to count the number of customers in each grade.

mysql> create view customers_grade_count as select grade,count(*) as count from customers group by grade;

Query OK, o rows affected (o.o1 sec)

mysql> select * from customers_grade_count;

```
+-----+
| grade | count |
+-----+
| 100 | 2 |
```

```
| 200 | 3 |
| 300 | 2 |
| NULL | 1 |
+----+
4 rows in set (0.00 sec)
```

4.create a view to count the number of unique customer, compute average and total purchase amount of customer orders by each date.

mysql> CREATE VIEW customer_purchase_stats AS

- -> SELECT
- -> ord_date,
- -> COUNT(DISTINCT orders. customer_id) as unique_customers,
- -> AVG(purch_amt) as avg_purchase_amt,
- -> SUM(purch_amt) as total_purchase_amt
- -> FROM orders
- -> JOIN customers ON orders.customer_id = customers. customer_id
- -> GROUP BY ord date;

Query OK, o rows affected (o.o1 sec)

mysql> select * from customer_purchase_stats;

5., create a view to get the salesperson and customer by name. Return order name, purchase amount, salesperson ID, name, customer name.

mysql> CREATE VIEW order_details AS

- -> SELECT
- -> orders.ord_no,
- -> orders.purch amt,
- -> salesman_id as salesperson_id,

```
->
 -> customers.cust_name as customer_name
 -> FROM orders
 -> JOIN salesman ON orders.salesman id = salesman.salesman id
 -> JOIN customers ON orders.customer_id = customers.customer_id;
Query OK, o rows affected (o.o1 sec)
mysql> select * from order details;
+-----
ord_no | purch_amt | salesperson_id | customer name |
+----+
 70013 | 3045.6 |
                    5001 | Nick Rimando |
                    5001 | Nick Rimando
 70008
         5760
 70002
         65.26
                    5001 | Nick Rimando |
                    5002 | graham davis |
 70007
         948.5
                   5002 | graham davis |
 70001
         150.5
                   5002 | julian green |
 70012 | 250.45 |
                    5006 | fabian johnson |
 70010 | 1983.43 |
                    5003 | Geoff Cameron |
 70003 | 2480.4 |
                   5003 | Geoff Cameron |
 70004
        110.5
 70011
                   5007 | Jozy altidor |
        75.29
                    5005 | Brad Guzan
 70009 | 270.65 |
                    5001 | Brad Davis
 70005
         2400.6
+-----+
12 rows in set (0.00 sec)
6.create a view to find all the customers who have the highest grade. Return all the fields of
customer.
mysql> CREATE VIEW top customers AS
 -> SELECT *
 -> FROM customers
 -> WHERE grade = (
 -> SELECT MAX(grade) FROM customers
 -> ):
Query OK, o rows affected (o.o1 sec)
mysql> select * from top customers;
+-----+
| customer_id | cust_name | city | grade | salesman_id |
+-----
    3008 | julian green | london | 300 |
```

5006

3004 | fabian johnson | paris | 300 |

2 rows in set (0.00 sec)

+----+

7.create a view to count number of the salesperson in each city. Return city, number of salespersons.

mysql> CREATE VIEW salesperson_count AS
-> SELECT city, COUNT(*) as count
-> FROM salesman

-> GROUP BY city;

Query OK, o rows affected (o.o1 sec)

mysql> select * from salesperson_count;

```
+----+
| city | count |
+----+
| New York | 1 |
| Paris | 2 |
| London | 1 |
| Rome | 1 |
| San jose | 1 |
+-----+
5 rows in set (0.00 sec)
```

8.create a view to compute average purchase amount and total purchase amount for each salesperson.

Return name, average purchase and total purchase amount. (Assume all names are unique).

mysql> CREATE VIEW salesman_purchase_stats AS

- -> SELECT
- -> salesman.name,
- -> AVG(orders.purch_amt) as avg_purchase_amount,
- -> SUM(orders.purch_amt) as total_purchase_amount
- -> FROM orders
- -> JOIN salesman ON orders.salesman_id = salesman.salesman_id
- -> GROUP BY salesman.name;

Query OK, o rows affected (o.oo sec)

mysql> select * from salesman_purchase_stats;

```
| Lauson Hen | 1295.449951171875 | 2590.89990234375 |
| Mc lyon | 1983.4300537109375 | 1983.4300537109375 |
| Paul Aam | 75.29000091552734 | 75.29000091552734 |
+-----+
6 rows in set (o.oo sec)
```

9.create a view to find those salespeople who handle more than one customer. Return all the fields

```
of salesperson.
mysql> CREATE VIEW salesman_multi_customers AS
 -> SELECT salesman.*
 -> FROM salesman
 -> WHERE salesman.salesman_id IN (
 -> SELECT salesman id
 -> FROM orders
 -> GROUP BY salesman id
 -> HAVING COUNT(DISTINCT customer_id) > 1
Query OK, o rows affected (o.o1 sec)
mysql> select * from salesman_multi_customers;
+----+
| salesman_id | name | city | commission |
+----+
    5001 | James hoog | New York | 0.15 |
    5002 | Nail Knite | Paris |
+-----
2 rows in set (0.00 sec)
```