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Assignment 07

1) Write a query that counts all orders for October 3.

➔ mysql> select count(*) from orders where odate='1990-10-03';

2) Write a query that counts the number of different non-NULL city values in the Customers table.

➔ mysql> select count(*) from customers where city is not null;

3) Write a query that selects each customer's smallest order.

➔ mysql> select min(amt) from orders group by cnum;

4) Write a query that selects the first customer, in alphabetical order, whose name begins with G.

➔ mysql> select min(cname) from customers where cname like 'g%';

5) Write a query that selects the highest rating in each city.

➔ mysql> select max(rating) from customers group by city;

6) Write a query that counts the number of salespeople registering orders for each day. (If a salesperson has more than one order on a given day, he or she should be counted only once.).

➔ mysql> select count(distinct snum),odate from orders group by odate;

Assignment 08

1) Assume each salesperson has a 12% commission. Write a query on the orders table that will produce the order number, the salesperson number, and the amount of the salesperson's commission for that order.

```
mysql> select onum,snum,amt*0.12 as "commission" from orders;
```

2) Write a query on the Customers table that will find the highest rating in each city. Put the output in this form: For the city (city), the highest rating is : (rating).

```
mysql> select max(rating) from customers group by city;
```

3) Write a query that lists customers in descending order of rating. Output the rating field first, followed by the customer's name and number.

```
mysql> select rating,cname,cnum from customers order by rating desc;
```

4) Write a query that totals the orders for each day and places the results in descending order.

```
mysql> select count(onum) as c from orders group by odate order by c
desc;
```

Assignment 09

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,customers where orders.cnum=customers.cnum;
```

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 salespeople.sname,customers.cname,orders.onum from salespeople, customers, orders where customers.snum=salespeople.snum and salespeople.snum=orders.snum;
```

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,salespeople where customers.snum=salespeople.snum and comm>0.12;
```

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 salespeople.sname,sum(salespeople.comm* orders.amt)
    -> from salespeople,orders,customers
    -> where salespeople.snum=orders.snum and orders.snum=customers.snum and customers.rating> 100 group by sname;
```

Assignment 10

1) Write a query that produces all pairs of salespeople who are living in the same city. Exclude combinations of salespeople with themselves as well as duplicate rows with the order reversed.

```
mysql> select a.sname,b.sname,a.city from salespeople b,salespeople a where a.city = b.city and a.snum < b.snum ;
```

2) Write a query that produces the names and cities of all customers with the same rating as Hoffman.

```
mysql> select cname, city from customers  where rating =(select rating from customers where cname = 'Hoffman') ;
```