

Assignment No. 9

Querying Multiple Tables at Once.

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1) Write a query that lists each order number followed by the name of the customer who made the order.

```
mysql> select onum, cname from customers, orders
```

```
-> where customers.cnum = orders.cnum;
```

```
mysql> select onum, cname from customers, orders
-> where customers.cnum = orders.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 (0.00 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 onum, sname, cname from customers, orders, salespeople
```

```
-> where customers.cnum = orders.cnum
```

```
-> and salespeople.snum = orders.snum;
```

```
mysql> select onum, sname, cname from customers, orders, salespeople
-> where customers.cnum = orders.cnum
-> and salespeople.snum = orders.snum;
+-----+-----+-----+
| onum | sname | cname |
+-----+-----+-----+
| 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 onum, sname, cname, comm from customers, orders, salespeople
```

```
-> where salespeople.comm > 0.12
```

```
-> and salespeople.snum = customers.snum
```

```
-> and orders.cnum = customers.cnum;
```

```
mysql> select onum, sname, cname, comm from customers, orders, salespeople
e
  -> where salespeople.comm > 0.12
  -> and salespeople.snum = customers.snum
  -> AND orders.cnum = customers.cnum;
+-----+-----+-----+-----+
| onum | sname | cname | comm |
+-----+-----+-----+-----+
| 3001 | Rifkin | Cisneros | 0.15 |
| 3005 | Serres | Liu | 0.13 |
| 3006 | Rifkin | Cisneros | 0.15 |
| 3007 | Serres | Grass | 0.13 |
| 3010 | Serres | Grass | 0.13 |
+-----+-----+-----+-----+
5 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 odate, SUM(amt*comm) AS total_comm FROM salespeople, orders, customers
```

```
-> WHERE customers.rating > 100
```

```
-> AND orders.cnum = customers.cnum
```

```
-> AND orders.snum = salespeople.snum
```

```
-> GROUP BY odate;
```

```
mysql> SELECT odate, SUM(amt*comm) AS total_comm FROM salespeople, orders,
customers
  -> WHERE customers.rating > 100
  -> AND orders.cnum = customers.cnum
  -> AND orders.snum = salespeople.snum
  -> GROUP BY odate;
+-----+-----+
| odate | total_comm |
+-----+-----+
| 1990-10-06 | 170.29 |
| 1990-10-04 | 181.17 |
| 1990-10-03 | 838.39 |
+-----+-----+
3 rows in set (0.00 sec)
```