

## 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.

mysql> select o.onum, c.cname from orders o join customers c on o.cnum = c.cnum;

```
mysql> select o.onum, c.cname from orders o join customers c on o.cnum = c.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 o.onum, c.cname, s.sname

from orders o

join customers c on o.cnum = c.cnum

join salespeople s on o.snum = s.snum;

```
mysql> select o.onum, c.cname, s.sname
-> from orders o
-> join customers c on o.cnum = c.cnum
-> join salespeople s on o.snum = s.snum;
+-----+-----+-----+
| onum | cname | sname |
+-----+-----+-----+
| 3003 | Hoffman | Peel |
| 3009 | Giovanni | Axelrod |
| 3005 | Liu | Serres |
| 3010 | Grass | Serres |
| 3007 | Grass | Serres |
| 3011 | Clemens | Peel |
| 3008 | Clemens | Peel |
| 3006 | Cisneros | Rifkin |
| 3001 | Cisneros | Rifkin |
| 3002 | Pereira | Motika |
+-----+-----+-----+
10 rows in set (0.00 sec)

mysql>
```

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.

```
select c.cname, s.sname, s.comm
from orders o
join customers c on o.cnum = c.cnum
join salespeople s on o.snum = s.snum
where s.comm > 12;
```

```
mysql> select c.cname, s.sname, s.comm
-> from orders o
-> join customers c on o.cnum = c.cnum
-> join salespeople s on o.snum = s.snum
-> where s.comm > 12;
Empty 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

```
select o.onum, c.cname, s.sname,
o.amt * (s.comm / 100) as comm
from orders o
join customers c on o.cnum = c.cnum
join salespeople s on o.snum = s.snum
where c.rating > 100;
```

```
mysql> select o.onum, c.cname, s.sname,
-> o.amt * (s.comm / 100) as comm
-> from orders o
-> join customers c on o.cnum = c.cnum
-> join salespeople s on o.snum = s.snum
-> where c.rating > 100;
+-----+-----+-----+-----+
| onum | cname | sname | comm |
+-----+-----+-----+-----+
| 3010 | Grass | Serres | 1.702935 |
| 3007 | Grass | Serres | 0.098475 |
| 3005 | Liu | Serres | 6.708585 |
| 3006 | Cisneros | Rifkin | 1.647240 |
| 3001 | Cisneros | Rifkin | 0.028035 |
| 3009 | Giovanni | Axelrod | 1.713230 |
+-----+-----+-----+-----+
6 rows in set (0.01 sec)

mysql> |
```