

Assignment – 9 Solution

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 onum, cname from orders, customer
-> where orders.cnum = customer.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, cname, sname from orders, customer, salespeople
-> where orders.cnum = customer.cnum and orders.snum =
salespeople.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)
```

- 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 cname, sname, comm from customer, salespeople
-> where customer.snum = salespeople.snum and salespeople.comm >
0.12;
+-----+-----+-----+
| cname | sname | comm |
+-----+-----+-----+
| Liu   | Serres | 0.13 |
| Grass | Serres | 0.13 |
| Cisneros | Rifkin | 0.15 |
+-----+-----+-----+
3 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 onum,amt, comm, (amt * comm / 100) as salesperson_comm
-> from orders, salespeople, customer
-> where orders.snum = salespeople.snum and orders.cnum =
customer.cnum and customer.rating > 100;
+-----+-----+-----+-----+
| onum | amt   | comm | salesperson_comm |
+-----+-----+-----+-----+
| 3010 | 1309.95 | 0.13 | 1.702935 |
| 3007 | 75.75 | 0.13 | 0.098475 |
| 3005 | 5160.45 | 0.13 | 6.708585 |
| 3006 | 1098.16 | 0.15 | 1.647240 |
| 3001 | 18.69 | 0.15 | 0.028035 |
| 3009 | 1713.23 | 0.10 | 1.713230 |
+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```