

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 orders.cnum, customers.cname FROM orders, customers
-> WHERE orders.cnum= customers.cnum;
+-----+-----+
| cnum | cname |
+-----+-----+
| 2008 | Cisneros |
| 2001 | Hoffman |
| 2007 | Pereira |
| 2003 | Liu |
| 2008 | Cisneros |
| 2002 | Giovanni |
| 2004 | Grass |
| 2006 | Clemens |
| 2004 | Grass |
| 2006 | 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 orders.cnum, customers.cname, salespeople.sname FROM orders LEFT OUTER JOIN customers
-> ON orders.cnum = customers.cnum LEFT OUTER JOIN salespeople
-> ON salespeople.snum=orders.snum;
+-----+-----+-----+
| cnum | cname | sname |
+-----+-----+-----+
| 2008 | Cisneros | Rifkin |
| 2001 | Hoffman | Peel |
| 2007 | Pereira | Motika |
| 2003 | Liu | Serres |
| 2008 | Cisneros | Rifkin |
| 2002 | Giovanni | Axelrod |
| 2004 | Grass | Serres |
| 2006 | Clemens | Peel |
| 2004 | Grass | Serres |
| 2006 | Clemens | Peel |
+-----+-----+-----+
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 c.cname, s.sname, s.comm FROM customers AS c
-> LEFT OUTER JOIN salespeople AS s ON c.Snum=S.snum
-> WHERE 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 s.snum, o.onum, o.cnum, o.amt*s.comm AS commision FROM orders o
-> LEFT OUTER JOIN salespeople s ON o.snum =s.snum
-> LEFT OUTER JOIN customers c ON o.cnum =c.cnum
-> WHERE c.rating > 100;
+-----+-----+-----+-----+
| snum | onum | cnum | commision |
+-----+-----+-----+-----+
| 1007 | 3001 | 2008 | 2.80 |
| 1002 | 3005 | 2003 | 670.86 |
| 1007 | 3006 | 2008 | 164.72 |
| 1003 | 3009 | 2002 | 171.32 |
| 1002 | 3007 | 2004 | 9.85 |
| 1002 | 3010 | 2004 | 170.29 |
+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```