

ASSIGNMENT 9

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;
```

onum	cname
3001	Allen
3002	Brown
3003	Clark
3004	Green
3005	David
3006	Carl

6 rows in set (0.01 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 s.sname, c.cname, o.onum
-> from salesperson s
-> join customers c on s.snum=c.snum
-> join orders o on c.cnum=o.cnum;
```

sname	cname	onum
Peel	Allen	3001
Axelrod	Brown	3002
Motika	Clark	3003
Peel	Green	3004
Serres	David	3005
Motika	Carl	3006

6 rows in set (0.01 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.*
-> FROM customers c
-> JOIN salesperson s ON c.snum = s.snum
-> WHERE s.comm > 0.12;
```

cnum	cname	city	rating	snum
2005	David	Rome	300	1002
2007	Gary	Madrid	220	1007

2 rows in set (0.00 sec)

```
mysql> SELECT *
-> FROM customers
-> WHERE snum IN (
->     SELECT snum
->     FROM salesperson
->     WHERE comm > 0.12
-> );
```

cnum	cname	city	rating	snum
2005	David	Rome	300	1002
2007	Gary	Madrid	220	1007

2 rows in set (0.01 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
->     o.onum AS order_no,
->     ROUND(o.amt * s.comm, 2) AS commission_amount
-> FROM orders o
-> JOIN customers c ON o.cnum = c.cnum
-> JOIN salesperson s ON o.snum = s.snum
-> WHERE c.rating > 100 AND o.amt IS NOT NULL;
```

order_no	commission_amount
3002	235
3003	0
3005	585
3006	209.08

4 rows in set (0.00 sec)