

Assignment - 19

Views

1) Create a view that shows all of the customers who have the highest ratings.

Answer÷

```
mysql> CREATE VIEW highest_rating_customers AS
-> SELECT *
-> FROM customers
-> WHERE Rating = (SELECT MAX(Rating) FROM customers);
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> SELECT * FROM highest_rating_customers;
+-----+-----+-----+-----+-----+
| Cnum | Cname   | City | Rating | Snum |
+-----+-----+-----+-----+-----+
| 2002 | Giovanni | Rome | 400    | 1003 |
+-----+-----+-----+-----+-----+
1 row in set (0.01 sec)
```

2) Create a view that shows the number of salespeople in each city.

Answer÷

```
mysql> CREATE VIEW salespeople_count_per_city AS
-> SELECT City, COUNT(*) AS number_of_salespeople
-> FROM salespeople
-> GROUP BY City;
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> select * from salespeople_count_per_city;
+-----+-----+
| City           | number_of_salespeople |
+-----+-----+
| New York       | 3                     |
| Los Angeles    | 1                     |
| Chicago        | 1                     |
| London         | 3                     |
| San Jose       | 2                     |
+-----+-----+
```

Barcelona	1
Delhi	1
Chennai	1
Paris	1

9 rows in set (0.01 sec)

3) Create a view that shows the average and total orders for each salesperson after his or her name. Assume all names are unique.

Answer÷

```
mysql> CREATE VIEW avg_total_orders_per_salesperson AS
-> SELECT s.Sname,
->         AVG(o.Amt) AS average_order,
->         SUM(o.Amt) AS total_order
-> FROM salespeople s
-> JOIN orders o ON s.Snum = o.Snum
-> GROUP BY s.Sname;
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> select * from avg_total_orders_per_salesperson;
```

Sname	average_order	total_order
John	1500.000000	6000.00
Alice	2100.000000	8400.00
Bob	450.000000	900.00
Rifkin	18.690001	18.69
Peel	767.190002	767.19
Serres	5160.450195	5160.45
Axelrod	1713.229980	1713.23

7 rows in set (0.01 sec)

4) Create a view that shows each salesperson with multiple

customers.

Answer÷mysql> CREATE VIEW

salespeople_with_multiple_customers AS

-> SELECT s.Snum, s.Sname, COUNT(c.Cnum) AS
total_customers

-> FROM salespeople s

-> JOIN customers c ON s.Snum = c.Snum

-> GROUP BY s.Snum, s.Sname

-> HAVING COUNT(c.Cnum) > 1;

Query OK, 0 rows affected (0.01 sec)

mysql> select * from salespeople_with_multiple_customers;

Snum	Sname	total_customers
3	Bob	2

1 row in set (0.00 sec)