

Assignment -7
Summarizing Data with Aggregate Functions.

- 1) Write a query that counts all orders for October 3.

```
W1_Minal_93084>SELECT COUNT(*) AS total_orders
-> FROM Orders
-> WHERE DAY(odate) = 3 AND MONTH(odate) = 10;
+-----+
| total_orders |
+-----+
|          5 |
+-----+
1 row in set (0.01 sec)
```

- 2) Write a query that counts the number of different non-NULL city values in the Customers table.

```
W1_Minal_93084>SELECT COUNT(DISTINCT city) AS num_of_cities
-> FROM Customers
-> WHERE city IS NOT NULL;
+-----+
| num_of_cities |
+-----+
|          4 |
+-----+
1 row in set (0.01 sec)
```

- 3) Write a query that selects each customer's smallest order.

```
W1_Minal_93084>SELECT cnum, MIN(amt) AS smallest_order
-> FROM Orders
-> GROUP BY cnum;
+-----+-----+
| cnum | smallest_order |
+-----+-----+
| 1004 |          234.22 |
| 2008 |           18.69 |
| 2007 |          1900.1 |
| 2001 |          767.19 |
| 2003 |         5160.45 |
| 2004 |           75.75 |
| 2006 |          4723   |
| 2002 |         1713.23 |
+-----+-----+
8 rows in set (0.00 sec)
```

- 4) Write a query that selects the first customer, in alphabetical order, whose name begins with G.

```
W1_Minal_93084>SELECT cname
-> FROM Customers
-> WHERE cname LIKE 'G%'
-> ORDER BY cname ASC
-> LIMIT 1;
+-----+
| cname |
+-----+
| Giovanni |
+-----+
1 row in set (0.00 sec)
```

- 5) Write a query that selects the highest rating in each city.

```
W1_Minal_93084>SELECT city, MAX(rating) AS highest_rating
-> FROM Customers
-> WHERE city IS NOT NULL
-> GROUP BY city;
+-----+-----+
| city | highest_rating |
+-----+-----+
| London | 100 |
| Rome | 200 |
| San Jose | 300 |
| Berlim | 300 |
+-----+-----+
4 rows in set (0.00 sec)
```

- 6) Write a query that counts the number of salespeople registering orders for each day. (If a salesperson has more than one order on a given day, he or she should be counted only once.).

```
W1_Minal_93084>SELECT odate, COUNT(DISTINCT snum) AS num_salespeople
-> FROM Orders
-> GROUP BY odate;
+-----+-----+
| odate | num_salespeople |
+-----+-----+
| NULL | 0 |
| 1990-10-03 | 4 |
| 1990-10-04 | 2 |
| 1990-10-05 | 1 |
| 1990-10-06 | 2 |
+-----+-----+
5 rows in set (0.00 sec)
```