Assignment −7

Summarizing Data with Aggregate Functions.

```
1) Write a query that counts all orders for October 3.
ANS:-
mysql> SELECT COUNT(*) AS total_orders
   -> FROM Orders
   -> WHERE Odate = '2024-10-03';
+----+
| total_orders |
+----+
           0 |
+----+
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.
ANS:-
mysql> SELECT COUNT(DISTINCT City) AS distinct_cities
   -> FROM Customers
   -> WHERE City IS NOT NULL;
+----+
| distinct_cities |
+----+
              6
+----+
1 row in set (0.01 sec)
```

```
3) Write a query that selects each customer's smallest order.
ANS:-
mysql> SELECT Cnum, MIN(Amt) AS smallest order
   -> FROM Orders
   -> GROUP BY Cnum;
+----+
| Cnum | smallest order |
| 2001 | 767.19 |
| 2002 | 1713.23 |
| 2003 | 5160.45 |
| 2004 |
            75.75
| 2006 | 4723.00 |
| 2007 | 1900.10 |
| 2008 |
             18.69 |
+----+
7 rows in set (0.01 \text{ sec})
4) Write a query that selects the first customer, in
alphabetical order, whose name begins with G.
ANS:-
mysql> SELECT *
   -> FROM Customers
   -> WHFRE Cname LTKF 'G%'
   -> ORDER BY Cname
   -> LIMIT 1;
+----+
| Cnum | Cname | City | Rating | Snum |
+----+
```

```
| 2002 | Giovanni | Rome | 200 | 1003 | +----+

1 row in set (0.01 sec)
```

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

ANS:-

mysql> SELECT City, MAX(Rating) AS highest_rating

- -> FROM Customers
- -> GROUP BY City;

+----+

+-		+-		. +
	City	I	highest_rating	
+-		+-		+
	London	I	200	
	Rome		200	
	San Jose		300	
	Berlin		300	
	New York		100	
	Paris		300	
+-		+-		+
6	rows in s	e e	t (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.).

ANS:-

mysql> SELECT Odate, COUNT(DISTINCT Snum) AS salespeople_count

- -> FROM Orders
- -> GROUP BY Odate;

⁴ rows in set (0.00 sec)