***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 = '1990-10-03';**

**+--------------+**

**| total\_orders |**

**+--------------+**

**| 5 |**

**+--------------+**

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

**Ans : mysql> SELECT COUNT(DISTINCT City) AS unique\_city\_count**

**-> FROM customers**

**-> WHERE City IS NOT NULL;**

**+-------------------+**

**| unique\_city\_count |**

**+-------------------+**

**| 8 |**

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1. Write a query that selects each customer’s smallest order.

**Ans : mysql> SELECT Cnum, MIN(Amt)**

**-> FROM orders**

**-> GROUP BY Cnum;**

**+------+----------+**

**| Cnum | MIN(Amt) |**

**+------+----------+**

**| 2008 | 18.69 |**

**| 2001 | 767.19 |**

**| 2007 | 1900.10 |**

**| 2003 | 5160.45 |**

**| 2002 | 1713.23 |**

**| 2004 | 75.75 |**

**| 2006 | 4723.00 |**

**+------+----------+**

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

**Ans : mysql> SELECT \***

**-> FROM customers**

**-> WHERE Cname LIKE 'G%'**

**-> ORDER BY Cname**

**-> LIMIT 1;**

**+------+----------+------+--------+------+**

**| Cnum | Cname | City | Rating | Snum |**

**+------+----------+------+--------+------+**

**| 2002 | Giovanni | Rome | 200 | 1003 |**

**+------+----------+------+--------+------+**

1. 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 | highest\_rating |**

**+----------+----------------+**

**| Pune | 250 |**

**| Mumbai | 200 |**

**| Delhi | 150 |**

**| Chennai | 300 |**

**| London | 100 |**

**| Rome | 200 |**

**| San Jose | 300 |**

**| Berlin | 300 |**

**+----------+----------------+**

1. 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.