***Assignment –7***

**Summarizing Data with Aggregate Functions.**

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

mysql> select count(\*) as TotalOrders from orders where Odate = '1990-10-03';

+-------------+

| TotalOrders |

+-------------+

| 8 |

+-------------+

1 row in set (0.01 sec)

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

mysql> select count(distinct City) as UniqueCities from customers where City is not null;

+--------------+

| UniqueCities |

+--------------+

| 4 |

+--------------+

1 row in set (0.01 sec)

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

mysql> select c.Cnum,c.Cname,MIN(O.Amt) as SamllestOrder from customers c join orders

o on c.Cnum = o.Cnum group by c.Cnum,c.Cname;

+------+----------+---------------+

| Cnum | Cname | SamllestOrder |

+------+----------+---------------+

| 2008 | Cisneros | 18.69 |

| 2001 | Hoffman | 767.19 |

| 2007 | Pereira | 1900.10 |

| 2003 | Liu | 5160.45 |

| 2002 | Giovanni | 1713.23 |

| 2004 | Grass | 75.75 |

| 2006 | Clemens | 4723.00 |

+------+----------+---------------+

7 rows in set (0.01 sec)

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

mysql> select \* from customers where Cname like 'G%' order by Cname limit 1;

+------+----------+------+--------+------+

| Cnum | Cname | City | Rating | Snum |

+------+----------+------+--------+------+

| 2002 | Giovanni | Rome | 200 | 1003 |

+------+----------+------+--------+------+

1 row in set (0.00 sec)

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

mysql> select City,MAX(Rating) as HighestRating

-> from customers group by City;

+----------+---------------+

| City | HighestRating |

+----------+---------------+

| London | 100 |

| Rome | 200 |

| San Jose | 300 |

| Berlin | 300 |

+----------+---------------+

4 rows in set (0.01 sec)

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.).

mysql> select Odate,count(distinct Snum) as SalespeopleCount from orders group by Odate;

+------------+------------------+

| Odate | SalespeopleCount |

+------------+------------------+

| 1990-10-03 | 5 |

| 1990-10-06 | 2 |

+------------+------------------+

2 rows in set (0.00 sec)