**Assignment 07**

**Summarizing Data with Aggregate Functions**

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

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

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

| total\_orders |

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

| 5 |

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

1 row in set (0.02 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 Unique\_cities from customers where CITY is not null;

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

| Unique\_cities |

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

| 4 |

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

1 row in set (0.01 sec)

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

mysql> select CNUM, MIN(AMT) as smallest\_order from orders group by CNUM;

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

| CNUM | smallest\_order |

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

| 2008 | 18.69 |

| 2001 | 767.19 |

| 2007 | 1900.10 |

| 2003 | 5160.45 |

| 2002 | 1713.23 |

| 2004 | 75.75 |

| 2006 | 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 (0.01 sec)

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

mysql> select CITY, MAX(RATING) as highest\_rating from customers group by CITY;

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

| CITY | highest\_rating |

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

| 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 unique\_salespeople from orders group by Odate order by Odate;

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

| Odate | unique\_salespeople |

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

| 1990-10-03 | 4 |

| 1990-10-04 | 2 |

| 1990-10-05 | 1 |

| 1990-10-06 | 2 |

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

4 rows in set (0.01 sec)