***Assignment –8***

**Formatting Query output.**

1) Assume each salesperson has a 12% commission. Write a query on the orders table that will produce the order number, the salesperson number, and the amount of the salesperson’s commission for that order.

ANS:-

mysql> SELECT Onum AS order\_number,

-> Snum AS salesperson\_number,

-> Amt \* 0.12 AS commission

-> FROM orders;

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

| order\_number | salesperson\_number | commission |

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

| 3001 | 1007 | 2.24 |

| 3002 | 1004 | 228.01 |

| 3003 | 1001 | 92.06 |

| 3005 | 1002 | 619.25 |

| 3006 | 1007 | 131.78 |

| 3007 | 1002 | 9.09 |

| 3008 | 1001 | 566.76 |

| 3009 | 1003 | 205.59 |

| 3010 | 1002 | 157.19 |

| 3011 | 1001 | 1187.03 |

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

10 rows in set (0.00 sec)

2) Write a query on the Customers table that will find the highest rating in each city. Put the output in this form:

For the city (city), the highest rating is : (rating).

ANS:-

mysql> SELECT CONCAT('For the city ', City, ', the highest rating is : ', MAX(Rating)) AS result

-> FROM customers

-> GROUP BY City;

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

| result |

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

| For the city London, the highest rating is : 200 |

| For the city Rome, the highest rating is : 200 |

| For the city San Jose, the highest rating is : 300 |

| For the city Berlin, the highest rating is : 300 |

| For the city New York, the highest rating is : 100 |

| For the city Paris, the highest rating is : 300 |

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6 rows in set (0.00 sec)

3) Write a query that lists customers in descending order of rating. Output the rating field first, followed by the customer’s name and number.

ANS:-

mysql> SELECT Rating AS rating,

-> Cname AS customer\_name,

-> Cnum AS customer\_number

-> FROM customers

-> ORDER BY Rating DESC;

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

| rating | customer\_name | customer\_number |

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

| 300 | Grass | 2004 |

| 300 | Cisneros | 2008 |

| 300 | Carol | 2012 |

| 250 | Eve | 2014 |

| 200 | Giovanni | 2002 |

| 200 | Liu | 2003 |

| 200 | Bob | 2011 |

| 150 | Dan | 2013 |

| 100 | Hoffman | 2001 |

| 100 | Clemens | 2006 |

| 100 | Pereira | 2007 |

| 100 | Alice | 2010 |

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

12 rows in set (0.00 sec)

4) Write a query that totals the orders for each day and places the results in descending order.

ANS:-

mysql> SELECT Odate AS order\_date,

-> SUM(Amt) AS total\_orders

-> FROM orders

-> GROUP BY Odate

-> ORDER BY total\_orders DESC;

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

| order\_date | total\_orders |

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

| 1990-10-06 | 11201.83 |

| 1990-10-03 | 8944.59 |

| 1990-10-05 | 4723.00 |

| 1990-10-04 | 1788.98 |

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

4 rows in set (0.00 sec)