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SL1 ASSIGNMENT 5

Problem Statement : Manage Data into the above tables using Insert, Select, Update, Delete with operators, functions, and set operator.

Display all the Purchase orders of a specific Customer.

```
mysql> select * from orders where cust_id = 3;
+----------+---------+---------+----------+---------------+--------+
| order_id | prod_id | cust_id | quantity | purchase_date | city   |
+----------+---------+---------+----------+---------------+--------+
|     1003 |     103 |       3 |        3 | 2001-02-08    | mumbai |
|     1006 |     106 |       3 |        2 | 2016-08-22    | pune   |
|     1013 |     103 |       3 |        4 | 1999-05-25    | pune   |
+----------+---------+---------+----------+---------------+--------+
3 rows in set (0.00 sec)
```

Get Customer and Data Item Information for a Specific Purchase Order.

```
mysql> select customer.cust_id, customer.fname, customer.lname,
products.prod_id, products.prod_name from customer, orders, products where
order_id = 1005 and orders.cust_id = customer.cust_id and orders.prod_id =
products.prod_id;
+---------+---------+--------+---------+-----------+
| cust_id | fname   | lname  | prod_id | prod_name |
+---------+---------+--------+---------+-----------+
|       5 | rishita | jadhav |     101 | apple7    |
+---------+---------+--------+---------+-----------+
1 row in set (0.00 sec)
```

Get the Total Value of Purchase Orders.

```
mysql> select sum(amount) from orders as TotalValue;
```

```
+-------------+
| sum(amount) |
+-------------+
|      376200 |
+-------------+
1 row in set (0.00 sec)
```

List the Purchase Orders in descending order as per total.

```
mysql> select * from orders order by amount desc;
+----------+---------+---------+----------+--------+--------------+--------+
| order_id | prod_id | cust_id | quantity | amount | purchase_date | city   |
+----------+---------+---------+----------+--------+--------------+--------+
|     1007 |     107 |       7 |        3 | 165000 | 2015-05-05    | nagpur |
|     1015 |     101 |       5 |        2 | 100000 | 2020-11-21    | mumbai |
|     1005 |     101 |       5 |        1 |  50000 | 2016-08-22    | pune   |
|     1012 |     104 |       2 |        3 |  15000 | 1997-09-05    | nashik |
|     1013 |     103 |       3 |        4 |  12000 | 1999-05-25    | pune   |
|     1002 |     104 |       2 |        2 |  10000 | 2010-03-03    | nagpur |
|     1003 |     103 |       3 |        3 |   6000 | 2001-02-08    | mumbai |
|     1011 |     105 |       1 |        2 |   5000 | 2012-12-12    | mumbai |
|     1004 |     102 |       4 |        4 |   4000 | 2003-02-02    | nashik |
|     1008 |     108 |       8 |        4 |   3200 | 2005-05-05    | mumbai |
|     1001 |     105 |       1 |        1 |   2500 | 2020-02-02    | pune   |
|     1009 |     109 |       9 |        1 |   1200 | 2015-09-09    | nashik |
|     1006 |     106 |       3 |        2 |   1000 | 2016-08-22    | pune   |
|     1014 |     102 |       4 |        1 |   1000 | 2011-08-15    | nagpur |
|     1010 |     110 |      10 |        1 |    300 | 2001-05-23    | nagpur |
+----------+---------+---------+----------+--------+--------------+--------+
15 rows in set (0.00 sec)
```

Display the name of customers whose first name starts with “Rav”. (String matching:Like operator)

```
mysql> select fname from customer where fname like "rav%";
```

```
+---------+
| fname   |
+---------+
| raveena |
| ravi    |
+---------+
2 rows in set (0.00 sec)
```

Display the name of customer whose order amount is greater than all the customers. (Relational Operator: <, >, <=, >=, = =,!=)

```
mysql> select fname, lname from customer, orders where customer.cust_id =
orders.cust_id order by amount desc limit 1;
+-------+-----------+
| fname | lname     |
+-------+-----------+
| elina | fernandes |
+-------+-----------+
1 row in set (0.00 sec)
```

Display order details of customer whose city name is “Pune” and purchase date is “22/08/2016” (Boolean Operators: and, or)

```
mysql> select * from orders where city = 'pune' and purchase_date = '2016-8-22';
+----------+---------+---------+----------+--------+--------------+------+
| order_id | prod_id | cust_id | quantity | amount | purchase_date | city |
+----------+---------+---------+----------+--------+--------------+------+
|     1005 |     101 |       5 |        1 |  50000 | 2016-08-22    | pune |
|     1006 |     106 |       3 |        2 |   1000 | 2016-08-22    | pune |
+----------+---------+---------+----------+--------+--------------+------+
2 rows in set (0.00 sec)
```

Add discount of 5% to all the customers whose order is more than Rs. 10000/-.(Arithmetic Operators +, -, *, /)

```
mysql> select * from orders;
+----------+---------+---------+----------+--------+--------------+--------+
| order_id | prod_id | cust_id | quantity | amount | purchase_date | city   |
```

```
+----------+---------+---------+----------+--------+---------------+--------+
|     1001 |     105 |       1 |        1 |   2500 | 2020-02-02    | pune   |
|     1002 |     104 |       2 |        2 |  10000 | 2010-03-03    | nagpur |
|     1003 |     103 |       3 |        3 |   6000 | 2001-02-08    | mumbai |
|     1004 |     102 |       4 |        4 |   4000 | 2003-02-02    | nashik |
|     1005 |     101 |       5 |        1 |  50000 | 2016-08-22    | pune   |
|     1006 |     106 |       3 |        2 |   1000 | 2016-08-22    | pune   |
|     1007 |     107 |       7 |        3 | 165000 | 2015-05-05    | nagpur |
|     1008 |     108 |       8 |        4 |   3200 | 2005-05-05    | mumbai |
|     1009 |     109 |       9 |        1 |   1200 | 2015-09-09    | nashik |
|     1010 |     110 |      10 |        1 |    300 | 2001-05-23    | nagpur |
|     1011 |     105 |       1 |        2 |   5000 | 2012-12-12    | mumbai |
|     1012 |     104 |       2 |        3 |  15000 | 1997-09-05    | nashik |
|     1013 |     103 |       3 |        4 |  12000 | 1999-05-25    | pune   |
|     1014 |     102 |       4 |        1 |   1000 | 2011-08-15    | nagpur |
|     1015 |     101 |       5 |        2 | 100000 | 2020-11-21    | mumbai |
+----------+---------+---------+----------+--------+---------------+--------+
15 rows in set (0.00 sec)

mysql> update orders set amount = amount - (0.05 * amount) where amount > 10000;
Query OK, 5 rows affected (0.00 sec)
Rows matched: 5  Changed: 5  Warnings: 0

mysql> select * from orders;
+----------+---------+---------+----------+--------+---------------+--------+
| order_id | prod_id | cust_id | quantity | amount | purchase_date | city   |
+----------+---------+---------+----------+--------+---------------+--------+
|     1001 |     105 |       1 |        1 |   2500 | 2020-02-02    | pune   |
|     1002 |     104 |       2 |        2 |  10000 | 2010-03-03    | nagpur |
|     1003 |     103 |       3 |        3 |   6000 | 2001-02-08    | mumbai |
|     1004 |     102 |       4 |        4 |   4000 | 2003-02-02    | nashik |
|     1005 |     101 |       5 |        1 |  47500 | 2016-08-22    | pune   |
|     1006 |     106 |       3 |        2 |   1000 | 2016-08-22    | pune   |
|     1007 |     107 |       7 |        3 | 156750 | 2015-05-05    | nagpur |
|     1008 |     108 |       8 |        4 |   3200 | 2005-05-05    | mumbai |
```

```
|     1009 |     109 |       9 |        1 |   1200 | 2015-09-09    | nashik |
|     1010 |     110 |      10 |        1 |    300 | 2001-05-23    | nagpur |
|     1011 |     105 |       1 |        2 |   5000 | 2012-12-12    | mumbai |
|     1012 |     104 |       2 |        3 |  14250 | 1997-09-05    | nashik |
|     1013 |     103 |       3 |        4 |  11400 | 1999-05-25    | pune   |
|     1014 |     102 |       4 |        1 |   1000 | 2011-08-15    | nagpur |
|     1015 |     101 |       5 |        2 |  95000 | 2020-11-21    | mumbai |
+----------+---------+---------+----------+--------+---------------+--------+
15 rows in set (0.00 sec)
```

Delete Purchase Order 1001.

```
mysql> delete from orders where order_id = 1001;
Query OK, 1 row affected (0.00 sec)

mysql> select * from orders;
+----------+---------+---------+----------+--------+---------------+--------+
| order_id | prod_id | cust_id | quantity | amount | purchase_date | city   |
+----------+---------+---------+----------+--------+---------------+--------+
|     1002 |     104 |       2 |        2 |  10000 | 2010-03-03    | nagpur |
|     1003 |     103 |       3 |        3 |   6000 | 2001-02-08    | mumbai |
|     1004 |     102 |       4 |        4 |   4000 | 2003-02-02    | nashik |
|     1005 |     101 |       5 |        1 |  47500 | 2016-08-22    | pune   |
|     1006 |     106 |       3 |        2 |   1000 | 2016-08-22    | pune   |
|     1007 |     107 |       7 |        3 | 156750 | 2015-05-05    | nagpur |
|     1008 |     108 |       8 |        4 |   3200 | 2005-05-05    | mumbai |
|     1009 |     109 |       9 |        1 |   1200 | 2015-09-09    | nashik |
|     1010 |     110 |      10 |        1 |    300 | 2001-05-23    | nagpur |
|     1011 |     105 |       1 |        2 |   5000 | 2012-12-12    | mumbai |
|     1012 |     104 |       2 |        3 |  14250 | 1997-09-05    | nashik |
|     1013 |     103 |       3 |        4 |  11400 | 1999-05-25    | pune   |
|     1014 |     102 |       4 |        1 |   1000 | 2011-08-15    | nagpur |
|     1015 |     101 |       5 |        2 |  95000 | 2020-11-21    | mumbai |
+----------+---------+---------+----------+--------+---------------+--------+
14 rows in set (0.00 sec)
```