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Task 1:This example of use of arithmetic operators. Create table fd\_details as specified below. Compute amount\_to\_pay.

Source code:-

mysql> show databases;

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

| Database |

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

| class |

| emp |

| employee |

| information\_schema |

| mysql |

| performance\_schema |

| student |

| sys |

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

8 rows in set (0.19 sec)

mysql> create database fd;

Query OK, 1 row affected (0.03 sec)

mysql> select database();

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

| database() |

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

| NULL |

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

1 row in set (0.01 sec)

mysql> use fd;

Database changed

mysql> select database();

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

| database() |

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

| fd |

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

1 row in set (0.00 sec)

mysql> create table fd\_details( fdno int primary key, type varchar(10),opdate date,amt float, intrate int,duedate date,period int);

Query OK, 0 rows affected (0.02 sec)

mysql> desc fd\_details;

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

| Field | Type | Null | Key | Default | Extra |

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

| fdno | int | NO | PRI | NULL | |

| type | varchar(10) | YES | | NULL | |

| opdate | date | YES | | NULL | |

| amt | float | YES | | NULL | |

| intrate | int | YES | | NULL | |

| duedate | date | YES | | NULL | |

| period | int | YES | | NULL | |

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

7 rows in set (0.00 sec)

mysql> insert into fd\_details values(1,'savings','2021-06-01', 10000,20,'2022-12-31',datediff(duedate,opdate));

Query OK, 1 row affected (0.00 sec)

mysql> insert into fd\_details values(2,'savings','2021-08-01', 10000,20,'2022-12-30',datediff(duedate,opdate));

Query OK, 1 row affected (0.00 sec)

mysql> insert into fd\_details values(3,'savings','2022-03-01', 10000,20,'2022-07-31',datediff(duedate,opdate));

Query OK, 1 row affected (0.00 sec)

mysql> select fdno,type,opdate,amt,intrate,duedate,period,round(amt+(amt\*(intrate/100)\*(datediff(sysdate(),opdate)/365))) amount\_to\_pay from fd\_details;

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

| fdno | type | opdate | amt | intrate | duedate | period | amount\_to\_pay |

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

| 1 | savings | 2021-06-01 | 10000 | 20 | 2022-12-31 | 578 | 11353 |

| 2 | savings | 2021-08-01 | 10000 | 20 | 2022-12-30 | 516 | 11019 |

| 3 | savings | 2022-03-01 | 10000 | 20 | 2022-07-31 | 152 | 9858 |

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

3 rows in set (0.00 sec)

Task 2:For logical, relational, pattern matching, range, in and not in, use employee table with attributes as

employee(eid,ename,doj,toj,city,salary)

Source code:-

mysql> show databases;

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

| Database |

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

| class |

| emp |

| employee |

| information\_schema |

| mysql |

| performance\_schema |

| student |

| sys |

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

8 rows in set (0.00 sec)

mysql> use employee;

Database changed

mysql> select database();

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

| database() |

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

| employee |

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

1 row in set (0.00 sec)

mysql> show tables;

Empty set (0.02 sec)

mysql> create table employee(eid int primary key,ename varchar(10),doj date,toj time,city varchar(10),salary int);

Query OK, 0 rows affected (0.02 sec)

mysql> desc employee;

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

| Field | Type | Null | Key | Default | Extra |

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

| eid | int | NO | PRI | NULL | |

| ename | varchar(10) | YES | | NULL | |

| doj | date | YES | | NULL | |

| toj | time | YES | | NULL | |

| city | varchar(10) | YES | | NULL | |

| salary | int | YES | | NULL | |

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

6 rows in set (0.00 sec)

mysql> insert into employee values(101,"Abhi",'2021-01-27','08:15:32',"pune",10000);

Query OK, 1 row affected (0.01 sec)

mysql> insert into employee values(102,"Bhim",'2021-06-15','09:05:10',"nagpur",15000),(103,"Caira",'2021-09-04','08:30:20',"pune",20000),(104,"Dev",'2021-12-22','09:15:30',"mumbai",50000),(105,"Esha",'2022-01-17','08:42:25',"pune",10000);

Query OK, 4 rows affected (0.00 sec)

Records: 4 Duplicates: 0 Warnings: 0

mysql> select \* from employee;

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

| eid | ename | doj | toj | city | salary |

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

| 101 | Abhi | 2021-01-27 | 08:15:32 | pune | 10000 |

| 102 | Bhim | 2021-06-15 | 09:05:10 | nagpur | 15000 |

| 103 | Caira | 2021-09-04 | 08:30:20 | pune | 20000 |

| 104 | Dev | 2021-12-22 | 09:15:30 | mumbai | 50000 |

| 105 | Esha | 2022-01-17 | 08:42:25 | pune | 10000 |

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

5 rows in set (0.00 sec)

//Logical and operator

mysql> select eid,ename,city,salary from employee

-> where city="pune" && salary=10000;

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

| eid | ename | city | salary |

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

| 101 | Abhi | pune | 10000 |

| 105 | Esha | pune | 10000 |

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

2 rows in set, 1 warning (0.01 sec)

//Logical or operator

mysql> select eid,ename,city,salary from employee

-> where city="pune" or salary=10000;

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

| eid | ename | city | salary |

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

| 101 | Abhi | pune | 10000 |

| 103 | Caira | pune | 20000 |

| 105 | Esha | pune | 10000 |

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

3 rows in set (0.00 sec)

//Logical not operator

mysql> select \* from employee

-> where not salary>15000;

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

| eid | ename | doj | toj | city | salary |

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

| 101 | Abhi | 2021-01-27 | 08:15:32 | pune | 10000 |

| 102 | Bhim | 2021-06-15 | 09:05:10 | nagpur | 15000 |

| 105 | Esha | 2022-01-17 | 08:42:25 | pune | 10000 |

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

3 rows in set (0.00 sec)

mysql> insert into employee values(106,"Fara",'2022-02-1','08:15:32',"pune",10000);

Query OK, 1 row affected (0.00 sec)

//Logical multiple and operator

mysql> select eid,ename,city,salary from employee

-> where city="pune" and toj="08:15:32" and salary=10000;

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

| eid | ename | city | salary |

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

| 101 | Abhi | pune | 10000 |

| 106 | Fara | pune | 10000 |

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

2 rows in set (0.01 sec)

//Logical and - or comparision operator

mysql> select eid,ename,city,salary from employee

-> where city="pune" or city="mumbai" and salary>15000;

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

| eid | ename | city | salary |

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

| 101 | Abhi | pune | 10000 |

| 103 | Caira | pune | 20000 |

| 104 | Dev | mumbai | 50000 |

| 105 | Esha | pune | 10000 |

| 106 | Fara | pune | 10000 |

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

5 rows in set (0.00 sec)

//Logical not -and comparision operator

mysql> select eid,ename,city,salary from employee

-> where not city="pune" and salary=15000;

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

| eid | ename | city | salary |

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

| 102 | Bhim | nagpur | 15000 |

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

1 row in set (0.00 sec)

//Relational operators

//1)Less than operator

mysql> select \* from employee

-> where salary<20000;

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

| eid | ename | doj | toj | city | salary |

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

| 101 | Abhi | 2021-01-27 | 08:15:32 | pune | 10000 |

| 102 | Bhim | 2021-06-15 | 09:05:10 | nagpur | 15000 |

| 105 | Esha | 2022-01-17 | 08:42:25 | pune | 10000 |

| 106 | Fara | 2022-02-01 | 08:15:32 | pune | 10000 |

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

4 rows in set (0.00 sec)

//2)Equal to operator

mysql> select \* from employee

-> where salary=10000;

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

| eid | ename | doj | toj | city | salary |

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

| 101 | Abhi | 2021-01-27 | 08:15:32 | pune | 10000 |

| 105 | Esha | 2022-01-17 | 08:42:25 | pune | 10000 |

| 106 | Fara | 2022-02-01 | 08:15:32 | pune | 10000 |

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

3 rows in set (0.00 sec)

//3)Less than equal to operator

mysql> select \* from employee

-> where salary <=15000;

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

| eid | ename | doj | toj | city | salary |

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

| 101 | Abhi | 2021-01-27 | 08:15:32 | pune | 10000 |

| 102 | Bhim | 2021-06-15 | 09:05:10 | nagpur | 15000 |

| 105 | Esha | 2022-01-17 | 08:42:25 | pune | 10000 |

| 106 | Fara | 2022-02-01 | 08:15:32 | pune | 10000 |

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

4 rows in set (0.00 sec)

//4)Greater than equal to operator

mysql> select \* from employee

-> where salary >=15000;

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

| eid | ename | doj | toj | city | salary |

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

| 102 | Bhim | 2021-06-15 | 09:05:10 | nagpur | 15000 |

| 103 | Caira | 2021-09-04 | 08:30:20 | pune | 20000 |

| 104 | Dev | 2021-12-22 | 09:15:30 | mumbai | 50000 |

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

3 rows in set (0.00 sec)

//5)Greater operator

mysql> select \* from employee

-> where salary > 15000;

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

| eid | ename | doj | toj | city | salary |

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

| 103 | Caira | 2021-09-04 | 08:30:20 | pune | 20000 |

| 104 | Dev | 2021-12-22 | 09:15:30 | mumbai | 50000 |

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

2 rows in set (0.00 sec)

//6)Not Equal to operator

mysql> select \* from employee

-> where salary!=10000;

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

| eid | ename | doj | toj | city | salary |

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

| 102 | Bhim | 2021-06-15 | 09:05:10 | nagpur | 15000 |

| 103 | Caira | 2021-09-04 | 08:30:20 | pune | 20000 |

| 104 | Dev | 2021-12-22 | 09:15:30 | mumbai | 50000 |

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

3 rows in set (0.00 sec)

mysql> insert into employee values(107,"Aaru",'2022-02-2','08:45:32',"mumbai",13000);

Query OK, 1 row affected (0.00 sec)

//Pattern Matching

mysql> select \* from employee

-> where ename like 'a%';

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

| eid | ename | doj | toj | city | salary |

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

| 101 | Abhi | 2021-01-27 | 08:15:32 | pune | 10000 |

| 107 | Aaru | 2022-02-02 | 08:45:32 | mumbai | 13000 |

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

2 rows in set (0.00 sec)

mysql> select \* from employee

-> where ename like '\_\_i%';

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

| eid | ename | doj | toj | city | salary |

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

| 102 | Bhim | 2021-06-15 | 09:05:10 | nagpur | 15000 |

| 103 | Caira | 2021-09-04 | 08:30:20 | pune | 20000 |

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

2 rows in set (0.00 sec)

//In operator

mysql> select \* from employee

-> where ename in ('abhi','bhim','ram');

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

| eid | ename | doj | toj | city | salary |

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

| 101 | Abhi | 2021-01-27 | 08:15:32 | pune | 10000 |

| 102 | Bhim | 2021-06-15 | 09:05:10 | nagpur | 15000 |

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

2 rows in set (0.00 sec)

//Not in operator

mysql> select \* from employee

-> where ename not in ('abhi','bhim','ram');

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

| eid | ename | doj | toj | city | salary |

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

| 103 | Caira | 2021-09-04 | 08:30:20 | pune | 20000 |

| 104 | Dev | 2021-12-22 | 09:15:30 | mumbai | 50000 |

| 105 | Esha | 2022-01-17 | 08:42:25 | pune | 10000 |

| 106 | Fara | 2022-02-01 | 08:15:32 | pune | 10000 |

| 107 | Aaru | 2022-02-02 | 08:45:32 | mumbai | 13000 |

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

5 rows in set (0.00 sec)

//Between operator

mysql> select \* from employee

-> where salary between 10000 and 20000;

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

| eid | ename | doj | toj | city | salary |

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

| 101 | Abhi | 2021-01-27 | 08:15:32 | pune | 10000 |

| 102 | Bhim | 2021-06-15 | 09:05:10 | nagpur | 15000 |

| 103 | Caira | 2021-09-04 | 08:30:20 | pune | 20000 |

| 105 | Esha | 2022-01-17 | 08:42:25 | pune | 10000 |

| 106 | Fara | 2022-02-01 | 08:15:32 | pune | 10000 |

| 107 | Aaru | 2022-02-02 | 08:45:32 | mumbai | 13000 |

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

6 rows in set (0.01 sec)

Task 3:Create tables customer, salesman and orders. The sample tables are specified below.

Source code:-

mysql> show databases;

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

| Database |

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

| class |

| customer |

| emp |

| employee |

| information\_schema |

| mysql |

| performance\_schema |

| student |

| sys |

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

9 rows in set (0.00 sec)

mysql> use customer;

Database changed

mysql> select database();

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

| database() |

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

| customer |

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

1 row in set (0.00 sec)

//Salesman table

mysql> create table salesman(salesman\_id int primary key,name varchar(20),city varchar(20),commission float);

Query OK, 0 rows affected (0.01 sec)

mysql> desc salesman;

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

| Field | Type | Null | Key | Default | Extra |

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

| salesman\_id | int | NO | PRI | NULL | |

| name | varchar(20) | YES | | NULL | |

| city | varchar(20) | YES | | NULL | |

| commission | float | YES | | NULL | |

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

4 rows in set (0.00 sec)

mysql> insert into salesman values(5001,"James Hoog","Newyork",0.15),(5002,"Nail Knite","Paris",0.13),(5005,"Pit Alex","London",0.11),(5006,"Mc Lyon","Paris",0.14),(5007,"Paul Adam","Rome",0.13),(5003,"Lauson Hen","San Jose",0.12);

Query OK, 6 rows affected (0.01 sec)

Records: 6 Duplicates: 0 Warnings: 0

mysql> select \* from salesman;

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

| salesman\_id | name | city | commission |

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

| 5001 | James Hoog | Newyork | 0.15 |

| 5002 | Nail Knite | Paris | 0.13 |

| 5005 | Pit Alex | London | 0.11 |

| 5006 | Mc Lyon | Paris | 0.14 |

| 5007 | Paul Adam | Rome | 0.13 |

| 5003 | Lauson Hen | San Jose | 0.12 |

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

6 rows in set (0.00 sec)

//Customer Table

mysql> create table customer(customer\_id int,cust\_name varchar(20),city varchar(20),grade int,salesman\_id int);

Query OK, 0 rows affected (0.02 sec)

mysql> desc customer;

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

| Field | Type | Null | Key | Default | Extra |

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

| customer\_id | int | YES | | NULL | |

| cust\_name | varchar(20) | YES | | NULL | |

| city | varchar(20) | YES | | NULL | |

| grade | int | YES | | NULL | |

| salesman\_id | int | YES | | NULL | |

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

5 rows in set (0.00 sec)

mysql> insert into customer values(3002,"NickJoy","Newyork",100,5001),(3007,"Brad Davis","Newyork",200,5001),(3005,"Gram Bell","California",200,5002),(3008,"Juily Green","London",300,5002),(3004,"Fab John","Paris",300,5006),(3009,"Geoff Cameron","Berlin",100,5003),(3003,"Josef Altidor","Moscow",200,5007);

Query OK, 7 rows affected (0.00 sec)

Records: 7 Duplicates: 0 Warnings: 0

mysql> select \* from customer;

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

| customer\_id | cust\_name | city | grade | salesman\_id |

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

| 3002 | NickJoy | Newyork | 100 | 5001 |

| 3007 | Brad Davis | Newyork | 200 | 5001 |

| 3005 | Gram Bell | California | 200 | 5002 |

| 3008 | Juily Green | London | 300 | 5002 |

| 3004 | Fab John | Paris | 300 | 5006 |

| 3009 | Geoff Cameron | Berlin | 100 | 5003 |

| 3003 | Josef Altidor | Moscow | 200 | 5007 |

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

7 rows in set (0.00 sec)

//Order table

mysql> create table orders(ord\_no int primary key,purch\_amt float,ord\_date date ,customer\_id int ,salesman\_id int);

Query OK, 0 rows affected (0.01 sec)

mysql> desc orders;

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

| Field | Type | Null | Key | Default | Extra |

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

| ord\_no | int | NO | PRI | NULL | |

| purch\_amt | float | YES | | NULL | |

| ord\_date | date | YES | | NULL | |

| customer\_id | int | YES | | NULL | |

| salesman\_id | int | YES | | NULL | |

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

5 rows in set (0.00 sec)

mysql> insert into orders values(70001,150.5,'2012-10-05',3005,5002),(70009,270.65,'2012-09-10',3001,5005),(70002,65.26,'2012-10-05',3002,5001),(70004,110.5,'2012-08-17',3009,5003),(70007,948.5,'2012-09-10',3005,5002),(70005,2400.6,'2012-07-27',3007,5001), (70008,5760,'2012-09-10',3002,5001);

Query OK, 7 rows affected (0.00 sec)

Records: 7 Duplicates: 0 Warnings: 0

mysql> select \* from orders;

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

| ord\_no | purch\_amt | ord\_date | customer\_id | salesman\_id |

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

| 70001 | 150.5 | 2012-10-05 | 3005 | 5002 |

| 70009 | 270.65 | 2012-09-10 | 3001 | 5005 |

| 70002 | 65.26 | 2012-10-05 | 3002 | 5001 |

| 70004 | 110.5 | 2012-08-17 | 3009 | 5003 |

| 70007 | 948.5 | 2012-09-10 | 3005 | 5002 |

| 70005 | 2400.6 | 2012-07-27 | 3007 | 5001 |

| 70008 | 5760 | 2012-09-10 | 3002 | 5001 |

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

7 rows in set (0.00 sec)

//1. Write a query to display all customers with a grade above 100.

mysql> select \* from customer

-> where grade>100;

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

| customer\_id | cust\_name | city | grade | salesman\_id |

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

| 3007 | Brad Davis | Newyork | 200 | 5001 |

| 3005 | Gram Bell | California | 200 | 5002 |

| 3008 | Juily Green | London | 300 | 5002 |

| 3004 | Fab John | Paris | 300 | 5006 |

| 3003 | Josef Altidor | Moscow | 200 | 5007 |

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

5 rows in set (0.00 sec)

//2.Write a query statement to display all customers in New York who have a grade value above 100.

mysql> select \* from customer

-> where city="newyork" and grade>100;

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

| customer\_id | cust\_name | city | grade | salesman\_id |

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

| 3007 | Brad Davis | Newyork | 200 | 5001 |

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

1 row in set (0.00 sec)

//3.Write a SQL statement to display all customers, who are either belongs to the city New York or had a grade above 100.

mysql> select \* from customer

-> where city="newyork" or grade>100;

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

| customer\_id | cust\_name | city | grade | salesman\_id |

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

| 3002 | NickJoy | Newyork | 100 | 5001 |

| 3007 | Brad Davis | Newyork | 200 | 5001 |

| 3005 | Gram Bell | California | 200 | 5002 |

| 3008 | Juily Green | London | 300 | 5002 |

| 3004 | Fab John | Paris | 300 | 5006 |

| 3003 | Josef Altidor | Moscow | 200 | 5007 |

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

6 rows in set (0.00 sec)

//4. Write a SQL statement to display all the customers, who are either belongs to the city New York or not had a grade above 100.

mysql> select \* from customer

-> where city="newyork" or not grade>100;

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

| customer\_id | cust\_name | city | grade | salesman\_id |

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

| 3002 | NickJoy | Newyork | 100 | 5001 |

| 3007 | Brad Davis | Newyork | 200 | 5001 |

| 3009 | Geoff Cameron | Berlin | 100 | 5003 |

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

3 rows in set (0.00 sec)

// 5. Write SQL query to display those customers who are neither belongs to the city New York nor grade value is more than 100.

mysql> select \* from customer

-> where not city="newyork" or not grade>100;

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

| customer\_id | cust\_name | city | grade | salesman\_id |

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

| 3002 | NickJoy | Newyork | 100 | 5001 |

| 3005 | Gram Bell | California | 200 | 5002 |

| 3008 | Juily Green | London | 300 | 5002 |

| 3004 | Fab John | Paris | 300 | 5006 |

| 3009 | Geoff Cameron | Berlin | 100 | 5003 |

| 3003 | Josef Altidor | Moscow | 200 | 5007 |

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

6 rows in set (0.00 sec)

//6. Write a SQL statement to display either those orders which are not issued on date 2012-09-10 and issued by the salesman whose ID is 5005 and below or those orders which purchase amount is 1000.00 and below.

mysql> select \* from orders

-> where ( ord\_date!='2012-09-10' and salesman\_id <= 5005) or purch\_amt <= 1000.00;

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

| ord\_no | purch\_amt | ord\_date | customer\_id | salesman\_id |

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

| 70001 | 150.5 | 2012-10-05 | 3005 | 5002 |

| 70009 | 270.65 | 2012-09-10 | 3001 | 5005 |

| 70002 | 65.26 | 2012-10-05 | 3002 | 5001 |

| 70004 | 110.5 | 2012-08-17 | 3009 | 5003 |

| 70007 | 948.5 | 2012-09-10 | 3005 | 5002 |

| 70005 | 2400.6 | 2012-07-27 | 3007 | 5001 |

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

6 rows in set (0.00 sec)

//7. Write a SQL statement to display salesman\_id, name, city and commission who gets the commission within the range more than 0.10% and less than 0.12%.

mysql> select salesman\_id,name,city,commission from salesman

-> where commission between 0.10 and 0.12;

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

| salesman\_id | name | city | commission |

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

| 5005 | Pit Alex | London | 0.11 |

| 5003 | Lauson Hen | San Jose | 0.12 |

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

2 rows in set (0.01 sec)

//8. Write a SQL query to display all orders where purchase amount less than 200 or exclude those

orders which arder date is on or greater than 10th Feb, 2012 and customer id is below 3009

mysql> select \* from orders

-> where purch\_amt<200 or (not( ord\_date >= '2012-02-10' and customer\_id <3009));

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

| ord\_no | purch\_amt | ord\_date | customer\_id | salesman\_id |

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

| 70001 | 150.5 | 2012-10-05 | 3005 | 5002 |

| 70002 | 65.26 | 2012-10-05 | 3002 | 5001 |

| 70004 | 110.5 | 2012-08-17 | 3009 | 5003 |

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

3 rows in set (0.00 sec)

//9. Write a SQL statement to exclude the rows which satisfy 1) order dates are 2012-08-17 and - purchase amount is below 1000 2) customer id is greater than 3005 and purchase amount is below 1000.

mysql> select \* from orders

-> where not((ord\_date ='2012-08-17' or customer\_id > 3005) and purch\_amt<1000);

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

| ord\_no | purch\_amt | ord\_date | customer\_id | salesman\_id |

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

| 70001 | 150.5 | 2012-10-05 | 3005 | 5002 |

| 70009 | 270.65 | 2012-09-10 | 3001 | 5005 |

| 70002 | 65.26 | 2012-10-05 | 3002 | 5001 |

| 70007 | 948.5 | 2012-09-10 | 3005 | 5002 |

| 70005 | 2400.6 | 2012-07-27 | 3007 | 5001 |

| 70008 | 5760 | 2012-09-10 | 3002 | 5001 |

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

6 rows in set (0.00 sec)

//10. Write a SQL query to display order number, purchase amount which exceeds the 50% of the target value of 6000.

mysql> select ord\_no,purch\_amt from orders

-> where (100\*purch\_amt)/6000>50;

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

| ord\_no | purch\_amt |

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

| 70008 | 5760 |

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

1 row in set (0.00 sec)