**CODING PRACTICE – 25/05/2023**

**mysql> show databases;**

**+--------------------+**

**| Database |**

**+--------------------+**

**| amazon\_product |**

**| batch15 |**

**| blrdb |**

**| information\_schema |**

**| kgm |**

**| mysql |**

**| performance\_schema |**

**| sakila |**

**| sys |**

**| workbench |**

**| world |**

**+--------------------+**

**11 rows in set (0.62 sec)**

**mysql> use blrdb;**

**Database changed**

**mysql> show tables**

**-> ;**

**+-----------------+**

**| Tables\_in\_blrdb |**

**+-----------------+**

**| student\_data |**

**+-----------------+**

**1 row in set (0.21 sec)**

**CODING PRACTICE – 25/5/2023**

**mysql> create table stu\_marks(rollno int,name char(20),m1 int,m2 int,m3 int);**

**Query OK, 0 rows affected (0.98 sec)**

**mysql> desc stu\_marks;**

**+--------+----------+------+-----+---------+-------+**

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

**+--------+----------+------+-----+---------+-------+**

**| rollno | int | YES | | NULL | |**

**| name | char(20) | YES | | NULL | |**

**| m1 | int | YES | | NULL | |**

**| m2 | int | YES | | NULL | |**

**| m3 | int | YES | | NULL | |**

**+--------+----------+------+-----+---------+-------+**

**5 rows in set (0.00 sec)**

**mysql> insert into stu\_marks values(101,'Arjun',50,40,55),(102,'Bala',12,50,42),(103,'Harini',89,90,95),(105,'Naveen',78,88,86),(108,'jega',5,6,7);**

**Query OK, 5 rows affected (0.12 sec)**

**Records: 5 Duplicates: 0 Warnings: 0**

**mysql> select \* from stu\_marks;**

**+--------+--------+------+------+------+**

**| rollno | name | m1 | m2 | m3 |**

**+--------+--------+------+------+------+**

**| 101 | Arjun | 50 | 40 | 55 |**

**| 102 | Bala | 12 | 50 | 42 |**

**| 103 | Harini | 89 | 90 | 95 |**

**| 105 | Naveen | 78 | 88 | 86 |**

**| 108 | jega | 5 | 6 | 7 |**

**+--------+--------+------+------+------+**

**5 rows in set (0.00 sec)**

**mysql> select \* from stu\_marks where m1>90;**

**Empty set (0.03 sec)**

**mysql> select \* from stu\_marks where m1>70;**

**+--------+--------+------+------+------+**

**| rollno | name | m1 | m2 | m3 |**

**+--------+--------+------+------+------+**

**| 103 | Harini | 89 | 90 | 95 |**

**| 105 | Naveen | 78 | 88 | 86 |**

**+--------+--------+------+------+------+**

**2 rows in set (0.00 sec)**

**mysql> select rollno,name,m1 from stu\_marks where m1>70;**

**+--------+--------+------+**

**| rollno | name | m1 |**

**+--------+--------+------+**

**| 103 | Harini | 89 |**

**| 105 | Naveen | 78 |**

**+--------+--------+------+**

**2 rows in set (0.00 sec)**

**mysql> select rollno,name,m1 from stu\_marks where m1<40;**

**+--------+------+------+**

**| rollno | name | m1 |**

**+--------+------+------+**

**| 102 | Bala | 12 |**

**| 108 | jega | 5 |**

**+--------+------+------+**

**2 rows in set (0.00 sec)**

**mysql> select rollno,name,m1 from stu\_marks where m1<> 100;**

**+--------+--------+------+**

**| rollno | name | m1 |**

**+--------+--------+------+**

**| 101 | Arjun | 50 |**

**| 102 | Bala | 12 |**

**| 103 | Harini | 89 |**

**| 105 | Naveen | 78 |**

**| 108 | jega | 5 |**

**+--------+--------+------+**

**5 rows in set (0.00 sec)**

**mysql> select rollno,name,m1 from stu\_marks where m1= 100;**

**Empty set (0.00 sec)**

**mysql> select rollno,name,m2 from stu\_marks where m2>=40;**

**+--------+--------+------+**

**| rollno | name | m2 |**

**+--------+--------+------+**

**| 101 | Arjun | 40 |**

**| 102 | Bala | 50 |**

**| 103 | Harini | 90 |**

**| 105 | Naveen | 88 |**

**+--------+--------+------+**

**4 rows in set (0.00 sec)**

**mysql> select \*, m1+m2+m3 from stu\_marks;**

**+--------+--------+------+------+------+----------+**

**| rollno | name | m1 | m2 | m3 | m1+m2+m3 |**

**+--------+--------+------+------+------+----------+**

**| 101 | Arjun | 50 | 40 | 55 | 145 |**

**| 102 | Bala | 12 | 50 | 42 | 104 |**

**| 103 | Harini | 89 | 90 | 95 | 274 |**

**| 105 | Naveen | 78 | 88 | 86 | 252 |**

**| 108 | jega | 5 | 6 | 7 | 18 |**

**+--------+--------+------+------+------+----------+**

**5 rows in set (0.05 sec)**

**mysql> select \*, m1+m2+m3,(m1+m2+m3)/3 from stu\_marks;**

**+--------+--------+------+------+------+----------+--------------+**

**| rollno | name | m1 | m2 | m3 | m1+m2+m3 | (m1+m2+m3)/3 |**

**+--------+--------+------+------+------+----------+--------------+**

**| 101 | Arjun | 50 | 40 | 55 | 145 | 48.3333 |**

**| 102 | Bala | 12 | 50 | 42 | 104 | 34.6667 |**

**| 103 | Harini | 89 | 90 | 95 | 274 | 91.3333 |**

**| 105 | Naveen | 78 | 88 | 86 | 252 | 84.0000 |**

**| 108 | jega | 5 | 6 | 7 | 18 | 6.0000 |**

**+--------+--------+------+------+------+----------+--------------+**

**5 rows in set (0.05 sec)**

**mysql> update stu\_marks set m1 = m1+5;**

**Query OK, 5 rows affected (0.08 sec)**

**Rows matched: 5 Changed: 5 Warnings: 0**

**mysql> select \* from stu\_marks;**

**+--------+--------+------+------+------+**

**| rollno | name | m1 | m2 | m3 |**

**+--------+--------+------+------+------+**

**| 101 | Arjun | 55 | 40 | 55 |**

**| 102 | Bala | 17 | 50 | 42 |**

**| 103 | Harini | 94 | 90 | 95 |**

**| 105 | Naveen | 83 | 88 | 86 |**

**| 108 | jega | 10 | 6 | 7 |**

**+--------+--------+------+------+------+**

**5 rows in set (0.00 sec)**

**mysql> select \* from stu\_marks;**

**+--------+--------+------+------+------+**

**| rollno | name | m1 | m2 | m3 |**

**+--------+--------+------+------+------+**

**| 101 | Arjun | 55 | 40 | 55 |**

**| 102 | Bala | 17 | 50 | 42 |**

**| 103 | Harini | 94 | 90 | 95 |**

**| 105 | Naveen | 83 | 88 | 86 |**

**| 108 | jega | 10 | 6 | 7 |**

**+--------+--------+------+------+------+**

**5 rows in set (0.00 sec)**

**mysql> select \* from stu\_marks where m1>=40 and m2>=40 and m3>=40;**

**+--------+--------+------+------+------+**

**| rollno | name | m1 | m2 | m3 |**

**+--------+--------+------+------+------+**

**| 101 | Arjun | 55 | 40 | 55 |**

**| 103 | Harini | 94 | 90 | 95 |**

**| 105 | Naveen | 83 | 88 | 86 |**

**+--------+--------+------+------+------+**

**3 rows in set (0.00 sec)**

**mysql> select \* from stu\_marks where m1>=80 or m2>60 or m3>90;**

**+--------+--------+------+------+------+**

**| rollno | name | m1 | m2 | m3 |**

**+--------+--------+------+------+------+**

**| 103 | Harini | 94 | 90 | 95 |**

**| 105 | Naveen | 83 | 88 | 86 |**

**+--------+--------+------+------+------+**

**2 rows in set (0.00 sec)**

**mysql> select \* from stu\_marks where m1>=10 or m2>60 or m3>90;**

**+--------+--------+------+------+------+**

**| rollno | name | m1 | m2 | m3 |**

**+--------+--------+------+------+------+**

**| 101 | Arjun | 55 | 40 | 55 |**

**| 102 | Bala | 17 | 50 | 42 |**

**| 103 | Harini | 94 | 90 | 95 |**

**| 105 | Naveen | 83 | 88 | 86 |**

**| 108 | jega | 10 | 6 | 7 |**

**+--------+--------+------+------+------+**

**5 rows in set (0.00 sec)**

**mysql> select \* from stu\_marks where not name ='Harini';**

**+--------+--------+------+------+------+**

**| rollno | name | m1 | m2 | m3 |**

**+--------+--------+------+------+------+**

**| 101 | Arjun | 55 | 40 | 55 |**

**| 102 | Bala | 17 | 50 | 42 |**

**| 105 | Naveen | 83 | 88 | 86 |**

**| 108 | jega | 10 | 6 | 7 |**

**+--------+--------+------+------+------+**

**4 rows in set (0.00 sec)**

**mysql> select rollno,name,m2 from stu\_marks where m2 in (10,20,30,40,60,80);**

**+--------+-------+------+**

**| rollno | name | m2 |**

**+--------+-------+------+**

**| 101 | Arjun | 40 |**

**+--------+-------+------+**

**1 row in set (0.00 sec)**

**mysql> select rollno,name,m3 from stu\_marks where m3 between 60 and 90;**

**+--------+--------+------+**

**| rollno | name | m3 |**

**+--------+--------+------+**

**| 105 | Naveen | 86 |**

**+--------+--------+------+**

**1 row in set (0.00 sec)**

**mysql> select rollno,name,m3 from stu\_marks where m3 not between 60 and 90;**

**+--------+--------+------+**

**| rollno | name | m3 |**

**+--------+--------+------+**

**| 101 | Arjun | 55 |**

**| 102 | Bala | 42 |**

**| 103 | Harini | 95 |**

**| 108 | jega | 7 |**

**+--------+--------+------+**

**4 rows in set (0.00 sec)**

**mysql> create table product\_det(pid varchar(20),pname varchar(22),price double(10,2),dom date);**

**Query OK, 0 rows affected, 1 warning (0.92 sec)**

**mysql> desc product\_det;**

**+-------+--------------+------+-----+---------+-------+**

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

**+-------+--------------+------+-----+---------+-------+**

**| pid | varchar(20) | YES | | NULL | |**

**| pname | varchar(22) | YES | | NULL | |**

**| price | double(10,2) | YES | | NULL | |**

**| dom | date | YES | | NULL | |**

**+-------+--------------+------+-----+---------+-------+**

**4 rows in set (0.12 sec)**

**mysql> insert into product\_det values('wt22','Apple Watch',50999.99,'2023-03-24'),('mb28','Redmi',17899.99,'2023-02-22'),('sl01','Puma',2000.50,'2023-01-15');**

**Query OK, 3 rows affected (0.13 sec)**

**Records: 3 Duplicates: 0 Warnings: 0**

**mysql> insert into product\_det values('wt23','Apple Watch9',69999.99,'2023-03-26'),('mb22','Samsung',27899.99,'2023-01-22'),('sl20','VKC',350.50,'2023-01-17');**

**Query OK, 3 rows affected (0.06 sec)**

**Records: 3 Duplicates: 0 Warnings: 0**

**mysql> insert into product\_det values('wt28','Noise',2999.99,'2023-03-26'),('mb32','Samsung DX',30899.99,'2023-01-22'),('sl69','Addidas',3550.50,'2023-02-6');**

**Query OK, 3 rows affected (0.04 sec)**

**Records: 3 Duplicates: 0 Warnings: 0**

**mysql> select \* from product\_det;**

**+------+--------------+----------+------------+**

**| pid | pname | price | dom |**

**+------+--------------+----------+------------+**

**| wt22 | Apple Watch | 50999.99 | 2023-03-24 |**

**| mb28 | Redmi | 17899.99 | 2023-02-22 |**

**| sl01 | Puma | 2000.50 | 2023-01-15 |**

**| wt23 | Apple Watch9 | 69999.99 | 2023-03-26 |**

**| mb22 | Samsung | 27899.99 | 2023-01-22 |**

**| sl20 | VKC | 350.50 | 2023-01-17 |**

**| wt28 | Noise | 2999.99 | 2023-03-26 |**

**| mb32 | Samsung DX | 30899.99 | 2023-01-22 |**

**| sl69 | Addidas | 3550.50 | 2023-02-06 |**

**+------+--------------+----------+------------+**

**9 rows in set (0.00 sec)**

**mysql> select \* from product\_det where pid like 'w%';**

**+------+--------------+----------+------------+**

**| pid | pname | price | dom |**

**+------+--------------+----------+------------+**

**| wt22 | Apple Watch | 50999.99 | 2023-03-24 |**

**| wt23 | Apple Watch9 | 69999.99 | 2023-03-26 |**

**| wt28 | Noise | 2999.99 | 2023-03-26 |**

**+------+--------------+----------+------------+**

**3 rows in set (0.04 sec)**

**mysql> select \* from product\_det where pname like '%a';**

**+------+-------+---------+------------+**

**| pid | pname | price | dom |**

**+------+-------+---------+------------+**

**| sl01 | Puma | 2000.50 | 2023-01-15 |**

**+------+-------+---------+------------+**

**1 row in set (0.00 sec)**

**mysql> select \* from product\_det where pname like '%s';**

**+------+---------+---------+------------+**

**| pid | pname | price | dom |**

**+------+---------+---------+------------+**

**| sl69 | Addidas | 3550.50 | 2023-02-06 |**

**+------+---------+---------+------------+**

**1 row in set (0.00 sec)**

**mysql> select \* from product\_det where pname like 'sam%';**

**+------+------------+----------+------------+**

**| pid | pname | price | dom |**

**+------+------------+----------+------------+**

**| mb22 | Samsung | 27899.99 | 2023-01-22 |**

**| mb32 | Samsung DX | 30899.99 | 2023-01-22 |**

**+------+------------+----------+------------+**

**2 rows in set (0.00 sec)**

**mysql> select \* from product\_det where pname like '%le%';**

**+------+--------------+----------+------------+**

**| pid | pname | price | dom |**

**+------+--------------+----------+------------+**

**| wt22 | Apple Watch | 50999.99 | 2023-03-24 |**

**| wt23 | Apple Watch9 | 69999.99 | 2023-03-26 |**

**+------+--------------+----------+------------+**

**2 rows in set (0.00 sec)**

**mysql> select \* from product\_det where pid like '\_t22';**

**+------+-------------+----------+------------+**

**| pid | pname | price | dom |**

**+------+-------------+----------+------------+**

**| wt22 | Apple Watch | 50999.99 | 2023-03-24 |**

**+------+-------------+----------+------------+**

**1 row in set (0.00 sec)**

**mysql> select \* from product\_det where pid like '\_ \_22';**

**+------+-------------+----------+------------+**

**| pid | pname | price | dom |**

**+------+-------------+----------+------------+**

**| wt22 | Apple Watch | 50999.99 | 2023-03-24 |**

**| mb22 | Samsung | 27899.99 | 2023-01-22 |**

**+------+-------------+----------+------------+**

**2 rows in set (0.00 sec)**

**mysql> select \* from product\_det where pid like 'sl\_ \_';**

**+------+---------+---------+------------+**

**| pid | pname | price | dom |**

**+------+---------+---------+------------+**

**| sl01 | Puma | 2000.50 | 2023-01-15 |**

**| sl20 | VKC | 350.50 | 2023-01-17 |**

**| sl69 | Addidas | 3550.50 | 2023-02-06 |**

**+------+---------+---------+------------+**

**3 rows in set (0.00 sec)**

**mysql> select \* from product\_det where dom between '2023-01-01' and '2023-02-15';**

**+------+------------+----------+------------+**

**| pid | pname | price | dom |**

**+------+------------+----------+------------+**

**| sl01 | Puma | 2000.50 | 2023-01-15 |**

**| mb22 | Samsung | 27899.99 | 2023-01-22 |**

**| sl20 | VKC | 350.50 | 2023-01-17 |**

**| mb32 | Samsung DX | 30899.99 | 2023-01-22 |**

**| sl69 | Addidas | 3550.50 | 2023-02-06 |**

**+------+------------+----------+------------+**

**5 rows in set (0.00 sec)**

**mysql> select \* from product\_det order by pname;**

**+------+--------------+----------+------------+**

**| pid | pname | price | dom |**

**+------+--------------+----------+------------+**

**| sl69 | Addidas | 3550.50 | 2023-02-06 |**

**| wt22 | Apple Watch | 50999.99 | 2023-03-24 |**

**| wt23 | Apple Watch9 | 69999.99 | 2023-03-26 |**

**| wt28 | Noise | 2999.99 | 2023-03-26 |**

**| sl01 | Puma | 2000.50 | 2023-01-15 |**

**| mb28 | Redmi | 17899.99 | 2023-02-22 |**

**| mb22 | Samsung | 27899.99 | 2023-01-22 |**

**| mb32 | Samsung DX | 30899.99 | 2023-01-22 |**

**| sl20 | VKC | 350.50 | 2023-01-17 |**

**+------+--------------+----------+------------+**

**9 rows in set (0.03 sec)**

**mysql> select \* from product\_det order by pname desc;**

**+------+--------------+----------+------------+**

**| pid | pname | price | dom |**

**+------+--------------+----------+------------+**

**| sl20 | VKC | 350.50 | 2023-01-17 |**

**| mb32 | Samsung DX | 30899.99 | 2023-01-22 |**

**| mb22 | Samsung | 27899.99 | 2023-01-22 |**

**| mb28 | Redmi | 17899.99 | 2023-02-22 |**

**| sl01 | Puma | 2000.50 | 2023-01-15 |**

**| wt28 | Noise | 2999.99 | 2023-03-26 |**

**| wt23 | Apple Watch9 | 69999.99 | 2023-03-26 |**

**| wt22 | Apple Watch | 50999.99 | 2023-03-24 |**

**| sl69 | Addidas | 3550.50 | 2023-02-06 |**

**+------+--------------+----------+------------+**

**9 rows in set (0.00 sec)**

**mysql> select \* from product\_det order by dom;**

**+------+--------------+----------+------------+**

**| pid | pname | price | dom |**

**+------+--------------+----------+------------+**

**| sl01 | Puma | 2000.50 | 2023-01-15 |**

**| sl20 | VKC | 350.50 | 2023-01-17 |**

**| mb22 | Samsung | 27899.99 | 2023-01-22 |**

**| mb32 | Samsung DX | 30899.99 | 2023-01-22 |**

**| sl69 | Addidas | 3550.50 | 2023-02-06 |**

**| mb28 | Redmi | 17899.99 | 2023-02-22 |**

**| wt22 | Apple Watch | 50999.99 | 2023-03-24 |**

**| wt23 | Apple Watch9 | 69999.99 | 2023-03-26 |**

**| wt28 | Noise | 2999.99 | 2023-03-26 |**

**+------+--------------+----------+------------+**

**9 rows in set (0.00 sec)**

**mysql> select \* from product\_det order by dom desc;**

**+------+--------------+----------+------------+**

**| pid | pname | price | dom |**

**+------+--------------+----------+------------+**

**| wt23 | Apple Watch9 | 69999.99 | 2023-03-26 |**

**| wt28 | Noise | 2999.99 | 2023-03-26 |**

**| wt22 | Apple Watch | 50999.99 | 2023-03-24 |**

**| mb28 | Redmi | 17899.99 | 2023-02-22 |**

**| sl69 | Addidas | 3550.50 | 2023-02-06 |**

**| mb22 | Samsung | 27899.99 | 2023-01-22 |**

**| mb32 | Samsung DX | 30899.99 | 2023-01-22 |**

**| sl20 | VKC | 350.50 | 2023-01-17 |**

**| sl01 | Puma | 2000.50 | 2023-01-15 |**

**+------+--------------+----------+------------+**

**9 rows in set (0.00 sec)**

**mysql> select distinct pname from product\_det;**

**+--------------+**

**| pname |**

**+--------------+**

**| Apple Watch |**

**| Redmi |**

**| Puma |**

**| Apple Watch9 |**

**| Samsung |**

**| VKC |**

**| Noise |**

**| Samsung DX |**

**| Addidas |**

**+--------------+**

**9 rows in set (0.02 sec)**

**mysql> select distinct pname,price from product\_det;**

**+--------------+----------+**

**| pname | price |**

**+--------------+----------+**

**| Apple Watch | 50999.99 |**

**| Redmi | 17899.99 |**

**| Puma | 2000.50 |**

**| Apple Watch9 | 69999.99 |**

**| Samsung | 27899.99 |**

**| VKC | 350.50 |**

**| Noise | 2999.99 |**

**| Samsung DX | 30899.99 |**

**| Addidas | 3550.50 |**

**+--------------+----------+**

**9 rows in set (0.03 sec)**