show databases;

create database [db\_name];

use [db\_name];

drop database [db\_name]

create table [table\_name] (col1 , col2, col3 , col4......);

eg user

show tables;

desc [tb\_name];

drop table [table\_name];

alter table [old table name] rename to [new name];

truncate table [table\_name];

insert into [table\_name](id,name,city) values(12,'durgesh','delhi');

insert into [table\_name] values(12,'ankit','kanpur');

select \* from [table\_name]

alter table [table\_name] add col1;

update [table\_name] set col= value , col = value where col=value;

delete from [table\_name] where col=value;

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use learn;

Database changed

mysql> show tables;

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

| Tables\_in\_learn |

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

| student |

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

1 row in set (0.00 sec)

mysql> select \* from student;

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

| id | name | city | country |

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

| 23 | ankit | delhi | ind |

| 24 | sanket | lucknow | india |

| 234 | ishant | lucknow | india |

| 246 | sumit | lucknow | india |

| 2334 | aman | kanpur | india |

| 24234236 | ramsigh | lucknow | india |

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

6 rows in set (0.00 sec)

mysql> select \* from student;

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

| id | name | city | country |

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

| 23 | ankit | delhi | ind |

| 24 | sanket | lucknow | india |

| 234 | ishant | lucknow | india |

| 246 | sumit | lucknow | india |

| 2334 | aman | kanpur | india |

| 24234236 | ramsigh | lucknow | india |

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

6 rows in set (0.00 sec)

mysql> select \* from student where city='lucknow';

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

| id | name | city | country |

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

| 24 | sanket | lucknow | india |

| 234 | ishant | lucknow | india |

| 246 | sumit | lucknow | india |

| 24234236 | ramsigh | lucknow | india |

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

4 rows in set (0.00 sec)

mysql> select \* from student where country='india';

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

| id | name | city | country |

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

| 24 | sanket | lucknow | india |

| 234 | ishant | lucknow | india |

| 246 | sumit | lucknow | india |

| 2334 | aman | kanpur | india |

| 24234236 | ramsigh | lucknow | india |

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

5 rows in set (0.00 sec)

mysql> select \* from student where country='india';

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

| id | name | city | country |

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

| 24 | sanket | lucknow | india |

| 234 | ishant | lucknow | india |

| 246 | sumit | lucknow | india |

| 2334 | aman | kanpur | india |

| 24234236 | ramsigh | lucknow | india |

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

5 rows in set (0.00 sec)

mysql> select name,city,country from student where country='india';

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

| name | city | country |

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

| sanket | lucknow | india |

| ishant | lucknow | india |

| sumit | lucknow | india |

| aman | kanpur | india |

| ramsigh | lucknow | india |

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

5 rows in set (0.00 sec)

mysql> select name as "USERNAME" , city as "CITYNAME" from student ;

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

| USERNAME | CITYNAME |

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

| ankit | delhi |

| sanket | lucknow |

| ishant | lucknow |

| sumit | lucknow |

| aman | kanpur |

| ramsigh | lucknow |

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

6 rows in set (0.00 sec)

mysql> select \* from student where city='kanpur';

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

| id | name | city | country |

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

| 2334 | aman | kanpur | india |

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

1 row in set (0.00 sec)

mysql> select \* from student;

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

| id | name | city | country |

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

| 23 | ankit | delhi | ind |

| 24 | sanket | lucknow | india |

| 234 | ishant | lucknow | india |

| 246 | sumit | lucknow | india |

| 2334 | aman | kanpur | india |

| 24234236 | ramsigh | lucknow | india |

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

6 rows in set (0.00 sec)

mysql> select country from student;

+---------+

| country |

+---------+

| ind |

| india |

| india |

| india |

| india |

| india |

+---------+

6 rows in set (0.00 sec)

mysql> select distinct(country) from student;

+---------+

| country |

+---------+

| ind |

| india |

+---------+

2 rows in set (0.00 sec)

mysql> select \* from student;

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

| id | name | city | country |

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

| 23 | ankit | delhi | ind |

| 24 | sanket | lucknow | india |

| 234 | ishant | lucknow | india |

| 246 | sumit | lucknow | india |

| 2334 | aman | kanpur | india |

| 24234236 | ramsigh | lucknow | india |

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

6 rows in set (0.00 sec)

mysql> select \* from student where country='india' and city='lucknow';

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

| id | name | city | country |

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

| 24 | sanket | lucknow | india |

| 234 | ishant | lucknow | india |

| 246 | sumit | lucknow | india |

| 24234236 | ramsigh | lucknow | india |

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

4 rows in set (0.00 sec)

mysql> select \* from student where country='india' or city='lucknow';

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

| id | name | city | country |

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

| 24 | sanket | lucknow | india |

| 234 | ishant | lucknow | india |

| 246 | sumit | lucknow | india |

| 2334 | aman | kanpur | india |

| 24234236 | ramsigh | lucknow | india |

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

5 rows in set (0.00 sec)

mysql> select \* from user;

ERROR 1146 (42S02): Table 'learn.user' doesn't exist

mysql> select \* from student;

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

| id | name | city | country |

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

| 23 | ankit | delhi | ind |

| 24 | sanket | lucknow | india |

| 234 | ishant | lucknow | india |

| 246 | sumit | lucknow | india |

| 2334 | aman | kanpur | india |

| 24234236 | ramsigh | lucknow | india |

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

6 rows in set (0.00 sec)

mysql> select \* from student where id >=24 and id<=2334;

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

| id | name | city | country |

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

| 24 | sanket | lucknow | india |

| 234 | ishant | lucknow | india |

| 246 | sumit | lucknow | india |

| 2334 | aman | kanpur | india |

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

4 rows in set (0.00 sec)

mysql> select \* from student where id between 24 and 2334;

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

| id | name | city | country |

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

| 24 | sanket | lucknow | india |

| 234 | ishant | lucknow | india |

| 246 | sumit | lucknow | india |

| 2334 | aman | kanpur | india |

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

4 rows in set (0.00 sec)

mysql> select \* from student where id >24 and id<2334;

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

| id | name | city | country |

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

| 234 | ishant | lucknow | india |

| 246 | sumit | lucknow | india |

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

2 rows in set (0.00 sec)

mysql> select \* from student;

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

| id | name | city | country |

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

| 23 | ankit | delhi | ind |

| 24 | sanket | lucknow | india |

| 234 | ishant | lucknow | india |

| 246 | sumit | lucknow | india |

| 2334 | aman | kanpur | india |

| 24234236 | ramsigh | lucknow | india |

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

6 rows in set (0.00 sec)

mysql> select \* from student where id=23 or id=234 or id=246;

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

| id | name | city | country |

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

| 23 | ankit | delhi | ind |

| 234 | ishant | lucknow | india |

| 246 | sumit | lucknow | india |

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

3 rows in set (0.00 sec)

mysql> select \* from student where id in(23,234,246);

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

| id | name | city | country |

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

| 23 | ankit | delhi | ind |

| 234 | ishant | lucknow | india |

| 246 | sumit | lucknow | india |

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

3 rows in set (0.00 sec)

mysql> select \* from student;

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

| id | name | city | country |

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

| 23 | ankit | delhi | ind |

| 24 | sanket | lucknow | india |

| 234 | ishant | lucknow | india |

| 246 | sumit | lucknow | india |

| 2334 | aman | kanpur | india |

| 24234236 | ramsigh | lucknow | india |

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

6 rows in set (0.00 sec)

mysql> select \* from student limit 4;

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

| id | name | city | country |

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

| 23 | ankit | delhi | ind |

| 24 | sanket | lucknow | india |

| 234 | ishant | lucknow | india |

| 246 | sumit | lucknow | india |

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

4 rows in set (0.00 sec)

mysql> select \* from student limit 2 2;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '2' at line 1

mysql> select \* from student limit 2 offset 2;

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

| id | name | city | country |

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

| 234 | ishant | lucknow | india |

| 246 | sumit | lucknow | india |

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

2 rows in set (0.00 sec)

mysql> select \* from student;

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

| id | name | city | country |

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

| 23 | ankit | delhi | ind |

| 24 | sanket | lucknow | india |

| 234 | ishant | lucknow | india |

| 246 | sumit | lucknow | india |

| 2334 | aman | kanpur | india |

| 24234236 | ramsigh | lucknow | india |

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

6 rows in set (0.00 sec)

mysql> select \* from student order by id;

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

| id | name | city | country |

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

| 23 | ankit | delhi | ind |

| 24 | sanket | lucknow | india |

| 234 | ishant | lucknow | india |

| 246 | sumit | lucknow | india |

| 2334 | aman | kanpur | india |

| 24234236 | ramsigh | lucknow | india |

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

6 rows in set (0.00 sec)

mysql> select \* from student order by id desc;

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

| id | name | city | country |

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

| 24234236 | ramsigh | lucknow | india |

| 2334 | aman | kanpur | india |

| 246 | sumit | lucknow | india |

| 234 | ishant | lucknow | india |

| 24 | sanket | lucknow | india |

| 23 | ankit | delhi | ind |

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

6 rows in set (0.00 sec)

mysql> select \* from student order by name desc;

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

| id | name | city | country |

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

| 246 | sumit | lucknow | india |

| 24 | sanket | lucknow | india |

| 24234236 | ramsigh | lucknow | india |

| 234 | ishant | lucknow | india |

| 23 | ankit | delhi | ind |

| 2334 | aman | kanpur | india |

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

6 rows in set (0.00 sec)

mysql> select \* from student order by name asc;

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

| id | name | city | country |

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

| 2334 | aman | kanpur | india |

| 23 | ankit | delhi | ind |

| 234 | ishant | lucknow | india |

| 24234236 | ramsigh | lucknow | india |

| 24 | sanket | lucknow | india |

| 246 | sumit | lucknow | india |

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

6 rows in set (0.00 sec)

mysql> select \* from student order by name;

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

| id | name | city | country |

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

| 2334 | aman | kanpur | india |

| 23 | ankit | delhi | ind |

| 234 | ishant | lucknow | india |

| 24234236 | ramsigh | lucknow | india |

| 24 | sanket | lucknow | india |

| 246 | sumit | lucknow | india |

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

6 rows in set (0.00 sec)

mysql> select \* from student;

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

| id | name | city | country |

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

| 23 | ankit | delhi | ind |

| 24 | sanket | lucknow | india |

| 234 | ishant | lucknow | india |

| 246 | sumit | lucknow | india |

| 2334 | aman | kanpur | india |

| 24234236 | ramsigh | lucknow | india |

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

6 rows in set (0.00 sec)

mysql> select \* from student order by id desc limit 2;

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

| id | name | city | country |

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

| 24234236 | ramsigh | lucknow | india |

| 2334 | aman | kanpur | india |

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

2 rows in set (0.00 sec)

mysql> update student set name='ram singh' where id=24234236;

Query OK, 1 row affected (0.02 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from student;

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

| id | name | city | country |

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

| 23 | ankit | delhi | ind |

| 24 | sanket | lucknow | india |

| 234 | ishant | lucknow | india |

| 246 | sumit | lucknow | india |

| 2334 | aman | kanpur | india |

| 24234236 | ram singh | lucknow | india |

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

6 rows in set (0.00 sec)

mysql> select \* from student;

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

| id | name | city | country |

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

| 23 | ankit | delhi | ind |

| 24 | sanket | lucknow | india |

| 234 | ishant | lucknow | india |

| 246 | sumit | lucknow | india |

| 2334 | aman | kanpur | india |

| 24234236 | ram singh | lucknow | india |

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

6 rows in set (0.00 sec)

mysql> select \* from student where name like 'a%';

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

| id | name | city | country |

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

| 23 | ankit | delhi | ind |

| 2334 | aman | kanpur | india |

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

2 rows in set (0.00 sec)

mysql> select \* from student where city like "\_u%";

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

| id | name | city | country |

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

| 24 | sanket | lucknow | india |

| 234 | ishant | lucknow | india |

| 246 | sumit | lucknow | india |

| 24234236 | ram singh | lucknow | india |

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

4 rows in set (0.00 sec)

mysql> select \* from student where city like "%o\_";

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

| id | name | city | country |

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

| 24 | sanket | lucknow | india |

| 234 | ishant | lucknow | india |

| 246 | sumit | lucknow | india |

| 24234236 | ram singh | lucknow | india |

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

4 rows in set (0.00 sec)

mysql> select \* from student;

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

| id | name | city | country |

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

| 23 | ankit | delhi | ind |

| 24 | sanket | lucknow | india |

| 234 | ishant | lucknow | india |

| 246 | sumit | lucknow | india |

| 2334 | aman | kanpur | india |

| 24234236 | ram singh | lucknow | india |

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

6 rows in set (0.00 sec)

mysql> select SUM(id) from student;

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

| SUM(id) |

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

| 24237097 |

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

1 row in set (0.00 sec)

mysql> select SUM(id) as "Total Salary" from student;

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

| Total Salary |

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

| 24237097 |

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

1 row in set (0.00 sec)

mysql> select AVG(id) from student;

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

| AVG(id) |

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

| 4039516.1667 |

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

1 row in set (0.00 sec)

mysql> select COUNT(id) from student;

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

| COUNT(id) |

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

| 6 |

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

1 row in set (0.00 sec)

mysql> select MIN(id) from student;

+---------+

| MIN(id) |

+---------+

| 23 |

+---------+

1 row in set (0.00 sec)

mysql> select name from student where id = (select MIN(id) from student) ;

+-------+

| name |

+-------+

| ankit |

+-------+

1 row in set (0.00 sec)

mysql> select name from student where id = (select MAX(id) from student) ;

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

| name |

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

| ram singh |

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

1 row in set (0.00 sec)

mysql> show tables;

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

| Tables\_in\_learn |

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

| student |

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

1 row in set (0.00 sec)

mysql> select \* from student;

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

| id | name | city | country |

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

| 23 | ankit | delhi | ind |

| 24 | sanket | lucknow | india |

| 234 | ishant | lucknow | india |

| 246 | sumit | lucknow | india |

| 2334 | aman | kanpur | india |

| 24234236 | ram singh | lucknow | india |

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

6 rows in set (0.00 sec)

mysql> create table laptops(lid int primary key, lmodel varchar(200), studentId int , foreign key(studentId) references student(id));

Query OK, 0 rows affected (0.09 sec)

mysql> show tables;

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

| Tables\_in\_learn |

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

| laptops |

| student |

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

2 rows in set (0.00 sec)

mysql> desc student;

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

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

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

| id | int | NO | PRI | NULL | |

| name | varchar(100) | NO | | NULL | |

| city | varchar(50) | YES | | NULL | |

| country | varchar(50) | YES | | NULL | |

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

4 rows in set (0.00 sec)

mysql> desc laptops;

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

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

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

| lid | int | NO | PRI | NULL | |

| lmodel | varchar(200) | YES | | NULL | |

| studentId | int | YES | MUL | NULL | |

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

3 rows in set (0.00 sec)

mysql> insert into laptops values(13414,'HP',96418565);

ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`learn`.`laptops`, CONSTRAINT `laptops\_ibfk\_1` FOREIGN KEY (`studentId`) REFERENCES `student` (`id`))

mysql> insert into laptops values(13414,'HP',23);

Query OK, 1 row affected (0.00 sec)

mysql> select \* from laptops;

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

| lid | lmodel | studentId |

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

| 13414 | HP | 23 |

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

1 row in set (0.00 sec)

mysql> insert into laptops values(13414,'Dell',24);

ERROR 1062 (23000): Duplicate entry '13414' for key 'laptops.PRIMARY'

mysql> insert into laptops values(134132454,'Dell',24);

Query OK, 1 row affected (0.00 sec)

mysql> select \* from laptops;

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

| lid | lmodel | studentId |

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

| 13414 | HP | 23 |

| 134132454 | Dell | 24 |

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

2 rows in set (0.00 sec)

mysql> select \* from student;

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

| id | name | city | country |

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

| 23 | ankit | delhi | ind |

| 24 | sanket | lucknow | india |

| 234 | ishant | lucknow | india |

| 246 | sumit | lucknow | india |

| 2334 | aman | kanpur | india |

| 24234236 | ram singh | lucknow | india |

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

6 rows in set (0.00 sec)

mysql> select student.name,student.city , laptops.lmodel from student , laptops where student.id=laptops.studentId;

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

| name | city | lmodel |

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

| ankit | delhi | HP |

| sanket | lucknow | Dell |

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

2 rows in set (0.00 sec)

mysql> select student.name,student.city , laptops.lmodel from student , laptops where student.id=laptops.studentId and student.name='Ankit';

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

| name | city | lmodel |

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

| ankit | delhi | HP |

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

1 row in set (0.00 sec)

mysql> select student.name , laptops.lmodel from student inner join laptops on student.id=laptops.studentId;

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

| name | lmodel |

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

| ankit | HP |

| sanket | Dell |

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

2 rows in set (0.00 sec)

mysql>

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