SQL

* What is database
* Database is a collection of data
* CREATE DATABASE testing;
* Use testing;
* create table student (id int,firstname varchar(50),lastname varchar(50),email varchar(100), mobile bigint, address varchar(250));

**insert into** student(id,firstname,lastname,email,mobile,address)

* values(1,"godhani","khushi","khushi@gmail.com",9173816590,"nikol");
* [INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO student (id,firstname,lastname,email,mobile,address)  [VALUES](mailto:VALUES)(2,"pooja","sarvaiya","pooja@gmail.com",9925016590,"nikol");
* [INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO student (id,firstname,lastname,email,mobile,address)  [VALUES](mailto:VALUES)(3,"yatrik","prajapati","yatrik@gmail.com",9925206590,"nikol");
* [INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO student (id,firstname,lastname,email,mobile,address)  [VALUES](mailto:VALUES)(4,"nirali","gajera","nirali@gmail.com",8925206590,"nikol");
* [INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO student (id,firstname,lastname,email,mobile,address)

[VALUES](mailto:VALUES)(5,"jenish","vaghasiya","jenish@gmail.com",8925206220,"nikol");

* [INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO student (id,firstname,lastname,email,mobile,address)

[VALUES](mailto:VALUES)(6,"divya","hirpara","divya@gmail.com",8916506220,"nikol");

* [INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO student (id,firstname,lastname,email,mobile,address)

[VALUES](mailto:VALUES)(7,"senha","patel","sneha@gmail.com",8916506250,"nikol");

* [INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO student (id,firstname,lastname,email,mobile,address)

[VALUES](mailto:VALUES)(8,"amruta","jotkar","amruta@gmail.com",8989506250,"surta");

* [INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO student (id,firstname,lastname,email,mobile,address)
* [VALUES](mailto:VALUES)(9,"jenish","vaghasiya","jenish@gmail.com",8989503050,"manali");
* [INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO student (id,firstname,lastname,email,mobile,address)

[VALUES](mailto:VALUES)(10,"tanvi","dhamliya","tanvi@gmail.com",8989403050,"nikol");

Example:-

* [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) id,mobile,lastname from student where id>5;
* [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) id,mobile,lastname from student where id>=2;
* [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) id,mobile,lastname from student where id!=9;
* [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) id,mobile,lastname from student where id=6;
* [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) id,mobile,lastname from student where id [in](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/comparison-operators.html%23function_in) (1,3,5,7,9);

**in and between**

* [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from student where id [IN](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/comparison-operators.html%23function_in) (1,2,3,4);
* [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from student where id between 4 [and](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_and) 10;

**like**

* [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from student where lastname [like](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-comparison-functions.html%23operator_like) 'k%';
* [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from student where lastname [like](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-comparison-functions.html%23operator_like) '%a';
* [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from student where firstname [like](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-comparison-functions.html%23operator_like) '%v\_';
* [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from student where firstname [like](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-comparison-functions.html%23operator_like) '%i';
* [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from student where firstname [like](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-comparison-functions.html%23operator_like) '\_e%';

**delete**

* [delete](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/delete.html) from student where id=10;

**update**

* [update](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/update.html) student [set](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/set.html) mobile= 9925016590 where id=6;

**like & and**

* [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from student where firstname [like](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-comparison-functions.html%23operator_like) 'j%' [and](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_and) id >5;

**new table**

* [CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [table](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) dept(id int, name varchar(150),email varchar(100), mobile bigint);

**Insert into**

* [insert](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) into dept(id,name,email,mobile) [values](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values)(1,'khushi','khushi@gmail.com',9173816590);
* [insert](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) into dept(id,name,email,mobile) [values](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values)(2,'pooja','pooja@gmail.com',9172816590);
* [insert](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) into dept(id,name,email,mobile) [values](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values)(3,'divya','divya@gmail.com',9172825590);
* [insert](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) into dept(id,name,email,mobile) [values](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values)(4,'pankil','pankil@gmail.com',9925016590);
* [insert](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) into dept(id,name,email,mobile) [values](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values)(5,'meet','meet@gmail.com',9235016590);

**group by**

* [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) [sum](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/aggregate-functions.html%23function_sum)(id) from student GROUP by mobile;

**order by**

* [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from dept order by name;

**count**

* [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) [count](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/aggregate-functions.html%23function_count)(\*), mobile dept from student where id>9173816590;

**inner join**

* **SELECT student.lastname,student.mobile, dept.name from student ineer join dept on student.id=dept.id;**