CREATE DATABASE databasename

Create table tablename(

clmname datatype(size) constraint(optional),

clmname datatype(size)

)

CREATE TABLE user (  
     userid int NOT NULL AUTO\_INCREMENT ,  
    username varchar(255) NOT NULL,  
    password varchar(255),  
    gender varchar(20),

hobby varchar(20),

email varchar(20),

city\_id int(10),  
     PRIMARY KEY (userid), FOREIGN KEY (`city\_id`) REFERENCES `city`(`city\_id`) ON DELETE RESTRICT ON UPDATE RESTRICT  
);

CREATE TABLE test\_results

(

name TEXT,

student\_id INTEGER PRIMARY KEY,

birth\_date DATE,

test\_result DECIMAL NOT NULL,

grade TEXT NOT NULL,

passed BOOLEAN NOT NULL

);

ALTER TABLE `user` ADD FOREIGN KEY (`city\_id`) REFERENCES `city`(`city\_id`) ON DELETE RESTRICT ON UPDATE RESTRICT;

[ALTER](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/alter-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/alter-table.html) `test\_results` CHANGE `student\_id` `student\_id` [INT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/numeric-types.html)(11) [NOT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL AUTO\_INCREMENT;

[CREATE](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/create-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/create-table.html) marks (marks\_id [int](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/numeric-types.html)(10) PRIMARY KEY AUTO\_INCREMENT [NOT](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL,user\_id [int](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/numeric-types.html)(10),marks [int](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/numeric-types.html), FOREIGN KEY (user\_id)REFERENCES users(user\_id) ON [DELETE](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/delete.html) CASCADE ON [UPDATE](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/update.html) CASCADE)

INSERT INTO user VALUES('','TOPS Data',"TOPS",'Male',"H","m")

INSERT INTO user VALUES ('','TOPS Data' , "Male", 'test@mail', "H","Pass")

INSERT INTO user (`username`,`gender`,`email`,`hobby`,`password`) VALUES ('TOPS Data',"Male",'test@mail',"H","Pass")

INSERT INTO test\_results(`test\_result`,`grade`,`passed`,name) VALUES

(123.12,'asd','true','test1'),

(123.12,'asd','true','test1'),

(123.12,'asd','true','test1'),

(123.12,'asd','true','test1');

INSERT INTO test\_results VALUES('name','','','asd','true','test1')

INSERT INTO user (`username`,`gender`,`email`,`hobby`,`password`) VALUES

('TOPS Data',"Male",'test@mail',"H","Pass"),

('TOPS Data1',"Male",'test1@mail',"Hob1","Pass1"),

('TOPS Data1',"Male",'test1@mail',"Hob1","Pass1"),

('TOPS Data1',"Male",'test1@mail',"Hob1","Pass1")

UPDATE user SET password="123"

INSERT INTO `users` (`user\_id`, `user\_name`, `password`, `gender`, `hobbies`, `mobile`, `city`) VALUES (NULL, 'Hardik', '123', 'Male', 'Music', '9879879879', '2'), (NULL, 'Darshan', '456', 'Male', 'Cricket', '6546546544', '2'), (NULL, 'Kartik', '789', 'Male', 'Cricket', '3693693699', '2'), (NULL, 'Ayush', '147', 'Male', 'Reading', '1471471471', '2');

SELECT u.user\_name,SUM(marks.marks) AS TOTal FROM `users` AS u JOIN marks ON marks.user\_id = u.user\_id WHERE u.user\_id= 1;

INSERT INTO marks (user\_id,marks) VALUES ('1',60),('1',90)

[ALTER](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/alter-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/alter-table.html) `users` ADD INDEX( `user\_id`);

[ALTER](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/alter-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/alter-table.html) `user` ADD PRIMARY KEY(`userid`);

ALTER TABLE user ADD city\_id int(10)

[ALTER](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/alter-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/alter-table.html) [user](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/information-functions.html#function_user) add mobileno [varchar](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/string-types.html" \t "mysql_doc)(20)

[ALTER](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/alter-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/alter-table.html) `user` CHANGE `mobileno` `mobile` [VARCHAR](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/string-types.html)(20) ;

[ALTER](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/alter-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/alter-table.html) [user](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/information-functions.html#function_user) drop mobileno

SELECT u.user\_id,u.user\_name,SUM(m.marks),s.subject\_title FROM users AS u

JOIN marks AS m

ON u.user\_id = m.user\_id

JOIN subject AS s

ON m.sub\_id = s.subject\_id WHERE u.user\_id=1 ORDER BY u.user\_id

[TRUNCATE](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/truncate-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/truncate-table.html) `user`

Drop table ‘user’

SELECT u.username,city.city\_title,state.state\_title,country.country\_title FROM `user` AS u

JOIN city as c

ON city.city\_id = u.city\_id

JOIN state

ON state.state\_id=city.state\_id

JOIN country

ON country.country\_id=state.count\_id

create index country\_id\_index on country(country\_id);

DELIMITER //

CREATE PROCEDURE anything\_sp\_name\_city(INOUT cityname varchar(50),INOUT stateid varchar(50))

BEGIN

INSERT INTO city (city\_title,state\_id) VALUES (cityname,stateid);

END //

DELIMITER ;

[SET](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/set.html) @p0='ahmedabad'; [SET](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/set.html) @p1='2'; [CALL](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/call.html) `anything\_sp\_name\_city`(@p0, @p1); [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) @p0AS `cityname`, @p1 AS `stateid`;

[ALTER](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/alter-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/alter-table.html) `user` CHANGE `username` `username` [VARCHAR](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/string-types.html)(200) [CHARACTER](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/charset.html) [SET](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/charset.html) latin1 [COLLATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/charset-collations.html) latin1\_swedish\_ci [NOT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL COMMENT'user name field';

CREATE VIEW user\_login

AS

SELECT userid,username,email,mobile FROM user

DELIMITER //

CREATE TRIGGER before\_employee\_update

BEFORE UPDATE ON user

FOR EACH ROW

BEGIN

INSERT INTO user\_backup

SET user\_id = OLD.userid,

password = OLD.password,

date = NOW();

END//

DELIMITER ;

DELIMITER //

CREATE TRIGGER before\_employee\_update

BEFORE UPDATE ON user

FOR EACH ROW

BEGIN

INSERT INTO user\_backup

SET user\_id = OLD.userid,

password = OLD.password,

date = NOW();

END//

DELIMITER ;

SELECT usr.userid,usr.username,usr.gender,city.city\_title

FROM `user` AS usr

RIGHT OUTER JOIN city

ON city.city\_id = u sr.city\_id WHERE usr.userid=2

SELECT TRes.name,sum(marks.marks) AS Total FROM test\_results AS TRes

JOIN marks

ON TRes.student\_id = marks.user\_id GROUP BY TRes.student\_id

SELECT TRes.name,sum(marks.marks) AS Total FROM test\_results AS TRes

LEFT JOIN marks

ON TRes.student\_id = marks.user\_id GROUP BY TRes.student\_id

|  |  |
| --- | --- |
| AND / OR | SELECT column\_name(s) FROM table\_name WHERE condition AND|OR condition |
| ALTER TABLE | ALTER TABLE table\_name  ADD column\_name datatype or ALTER TABLE table\_name  DROP COLUMN column\_name |
| AS (alias) | SELECT column\_name AS column\_alias FROM table\_name or SELECT column\_name FROM table\_name  AS table\_alias |
| BETWEEN | SELECT column\_name(s) FROM table\_name WHERE column\_name BETWEEN value1 AND value2 |
| CREATE DATABASE | CREATE DATABASE database\_name character set utf8 collate utf8\_general\_ci |
| CREATE TABLE | CREATE TABLE table\_name ( column\_name1 data\_type, column\_name2 data\_type, column\_name2 data\_type, ... ) |
| CREATE INDEX | CREATE INDEX index\_name ON table\_name (column\_name) or CREATE UNIQUE INDEX index\_name ON table\_name (column\_name) |
| CREATE VIEW | CREATE VIEW view\_name AS SELECT column\_name(s) FROM table\_name WHERE condition |
| DELETE | DELETE FROM table\_name WHERE some\_column=some\_value or DELETE FROM table\_name  (**Note:**Deletes the entire table!!) DELETE \* FROM table\_name  (**Note:**Deletes the entire table!!) |
| DROP DATABASE | DROP DATABASE database\_name |
| DROP INDEX | DROP INDEX table\_name.index\_name (SQL Server) DROP INDEX index\_name ON table\_name (MS Access) DROP INDEX index\_name (DB2/Oracle)  ALTER TABLE table\_name DROP INDEX index\_name (MySQL) |
| DROP TABLE | DROP TABLE table\_name |
| EXISTS | IF EXISTS (SELECT \* FROM table\_name WHERE id = ?) BEGIN --do what needs to be done if exists END ELSE BEGIN --do what needs to be done if not END |
| GROUP BY | SELECT column\_name, aggregate\_function(column\_name) FROM table\_name WHERE column\_name operator value GROUP BY column\_name |
| HAVING | SELECT column\_name, aggregate\_function(column\_name) FROM table\_name WHERE column\_name operator value GROUP BY column\_name HAVING aggregate\_function(column\_name) operator value |
| IN | SELECT column\_name(s) FROM table\_name WHERE column\_name IN (value1,value2,..) |
| INSERT INTO | INSERT INTO table\_name VALUES (value1, value2, value3,....) *or* INSERT INTO table\_name (column1, column2, column3,...) VALUES (value1, value2, value3,....) *or* INSERT INTO table2 (column\_name(s)) SELECT column\_name(s) FROM table1; |
| INNER JOIN | SELECT column\_name(s) FROM table\_name1 INNER JOIN table\_name2  ON table\_name1.column\_name=table\_name2.column\_name |
| LEFT JOIN | SELECT column\_name(s) FROM table\_name1 LEFT JOIN table\_name2  ON table\_name1.column\_name=table\_name2.column\_name |
| RIGHT JOIN | SELECT column\_name(s) FROM table\_name1 RIGHT JOIN table\_name2  ON table\_name1.column\_name=table\_name2.column\_name |
| FULL JOIN | SELECT column\_name(s) FROM table\_name1 FULL JOIN table\_name2  ON table\_name1.column\_name=table\_name2.column\_name |
| LIKE | SELECT column\_name(s) FROM table\_name WHERE column\_name LIKE pattern  SELECT \* FROM Store\_Information WHERE store\_name LIKE '%AN%'; |
| ORDER BY | SELECT column\_name(s) FROM table\_name ORDER BY column\_name [ASC|DESC] |
| SELECT | SELECT column\_name(s) FROM table\_name |
| SELECT \* | SELECT \* FROM table\_name |
| SELECT DISTINCT | SELECT DISTINCT column\_name(s) FROM table\_name |
| SELECT INTO | SELECT \* INTO new\_table\_name [IN externaldatabase] FROM old\_table\_name *or* SELECT column\_name(s) INTO new\_table\_name [IN externaldatabase] FROM old\_table\_name |
| SELECT TOP | SELECT TOP number|percent column\_name(s) FROM table\_name |
| TRUNCATE TABLE | TRUNCATE TABLE table\_name |
| UNION | SELECT column\_name(s) FROM table\_name1 UNION SELECT column\_name(s) FROM table\_name2 |
| UNION ALL | SELECT column\_name(s) FROM table\_name1 UNION ALL SELECT column\_name(s) FROM table\_name2 |
| UPDATE | UPDATE table\_name SET column1=value, column2=value,... WHERE some\_column=some\_value |
| WHERE | SELECT column\_name(s) FROM table\_name WHERE column\_name operator value |