*ALL QUERIES / COMMANDS*

CREATE DATABASE `student`;

CREATE TABLE Personal(

pid int,

pname VARCHAR(40),

pcompany VARCHAR(40),

price int

);

INSERT INTO personal(pid,pname,birth\_date,phone\_number,Gender)

VALUES

(3,"Zohaib","2008-8-4","03124122332","M"),

(4,"Kashif","2021-3-5","03416421432","M"),

(5,"Roha","1949-6-20","03341412332","F");

Use student;

SELECT \* FROM student.personal;

CREATE TABLE Bio(

id INT NOT NULL UNIQUE,

Name VARCHAR(50) NOT NULL,

age INT NOT NULL CHECK (age>=18),

gender VARCHAR(1) NOT NULL,

Phone\_number VARCHAR(10) NOT NULL UNIQUE,

city VARCHAR(15) NOT NULL DEFAULT 'karachi'

);

SELECT id,gender FROM bio;

SELECT id AS ID, name AS "Your Name" FROM bio;

SELECT \* FROM bio WHERE gender = "F";

SELECT \* FROM bio WHERE age >=20;

SELECT \* FROM bio WHERE age !=20;

SELECT \* FROM bio WHERE age >= 20 AND gender ="M";

SELECT \* FROM bio WHERE age >= 20 OR gender ="M";

SELECT \* FROM bio WHERE age >= 20 OR gender ="M" AND city = "karachi";

SELECT \* FROM bio WHERE (age >= 20 AND gender = "F") OR city = "MALAKAND";

SELECT \* FROM bio WHERE NOT (age >= 20 AND gender ="M") OR city = "Sindh";

SELECT \* FROM bio WHERE city NOT IN("Karachi","Islamabad","Malakand");

SELECT \* FROM bio WHERE city NOT IN("Karachi","Islamabad","Malakand");

SELECT \* FROM me WHERE birth\_date BETWEEN "1949-6-20" AND "2008-8-4";

SELECT \* FROM me WHERE birth\_date NOT BETWEEN "1949-6-20" AND "2008-8-4";

SELECT \* FROM bio WHERE Name LIKE "M%";

SELECT \* FROM bio WHERE Name LIKE "%R";

SELECT \* FROM bio WHERE Name LIKE "%a%";

SELECT \* FROM bio WHERE BINARY Name LIKE "W%";

SELECT \* FROM bio WHERE BINARY Name LIKE "\_a%";

SELECT \* FROM bio WHERE Name LIKE "\_\_s%";

SELECT \* FROM bio WHERE Name LIKE "\_\_s%";

SELECT \* FROM bio WHERE Name REGEXP '^as';

SELECT \* FROM bio WHERE Name REGEXP 'na$';

SELECT \* FROM bio WHERE Name REGEXP '[ar]';

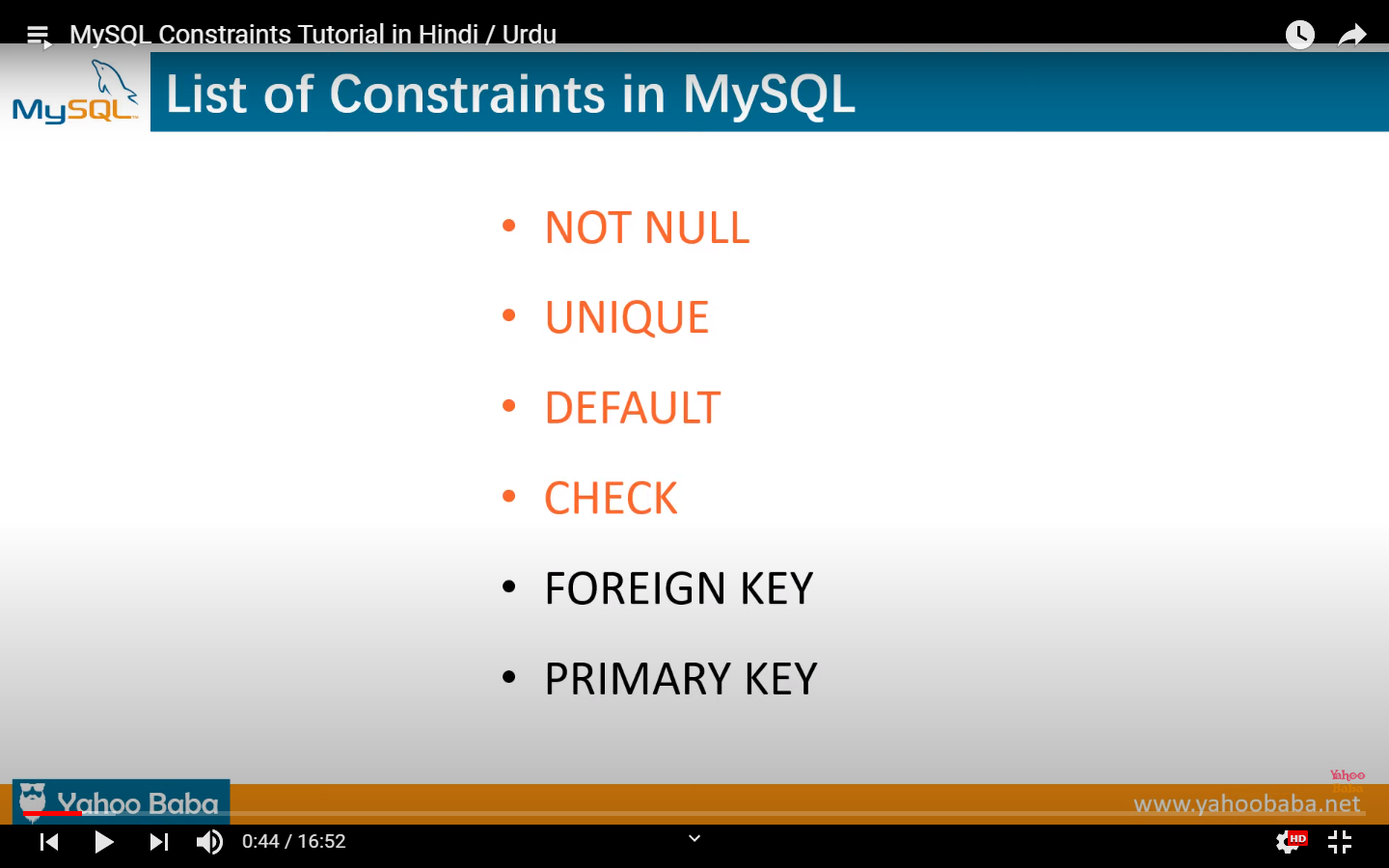
SELECT \* FROM bio WHERE Name REGEXP '^[ar]';

SELECT \* FROM bio WHERE Name REGEXP '[ar]$';

SELECT \* FROM bio WHERE Name REGEXP '[m-a]u';

SELECT \* FROM bio WHERE Name REGEXP 'as|na ';

SELECT \* FROM bio WHERE Name REGEXP '^ha|if$';

Constraints : 

Code example :

CREATE TABLE Bio(

id INT NOT NULL UNIQUE,

Name VARCHAR(50) NOT NULL,

age INT NOT NULL CHECK (age>=18),

gender VARCHAR(1) NOT NULL,

Phone\_number VARCHAR(10) NOT NULL UNIQUE,

city VARCHAR(15) NOT NULL DEFAULT 'karachi'

);

Multiple insertion example code :

INSERT INTO bio(id,Name,age,gender,Phone\_number,city)

VALUES

(1,"Ashar",21,"M","41225465","Nowshera"),

(2,"Wasif",32,"M","123141325","Balakot"),

(3,"hina",18,"F","1561821325","Sukkhur"),

(6,"Misha",45,"F","1323341525","Sindh"),

(5,"Musaf",18,"M","1233421562","MALAKAND");

SELECT \* FROM bio WHERE Name IS NOT NULL;

SELECT \* FROM me WHERE pname IS NULL;

SELECT \* FROM me WHERE id IS NOT NULL;

SELECT \* FROM bio LIMIT 5;

SELECT \* FROM bio WHERE city ="karachi" ORDER by id LIMIT 5;

SELECT \* FROM bio WHERE id LIMIT 5,3;

SELECT MAX(age) FROM bio ;

SELECT COUNT(distinct city) FROM bio ;

SELECT MIN(age) AS AGE, id,Name FROM bio ;

SELECT AVG(id) AS id, city,Name FROM bio ;

SELECT SUM(id) AS id FROM bio ;

SELECT COUNT(\*) AS id FROM bio ;

UPDATE bio SET city="Quetta" WHERE id=11;

UPDATE bio SET Name="Taha",Phone\_number="41233412" WHERE id=10;

UPDATE bio SET age=29 WHERE id IN (2,6);

SELECT \* FROM student.bio;

COMMIT;

UPDATE bio SET city="GAWADAR" WHERE id IN (11,1);

ROLLBACK;

COMMIT;

DELETE FROM bio WHERE id=1;

ROLLBACK;

CREATE TABLE CITY(

cid INT NOT NULL AUTO\_INCREMENT,

CityName VARCHAR(50) NOT NULL,

PRIMARY KEY(cid)

);

CREATE TABLE marks(

id INT NOT NULL AUTO\_INCREMENT,

NAME VARCHAR(30) NOT NULL,

AGE INT NOT NULL,

PERCENTAGE DOUBLE NOT NULL,

CITY INT NOT NULL,

PRIMARY KEY (id),

FOREIGN KEY(CITY) REFERENCES CITY (cid)

);

INSERT INTO marks(id,NAME,AGE,PERCENTAGE,CITY)

VALUES

(1,"kaiser",23,56.12,1),

(2,"Momina",18,67.4,2),

(3,"Nisar",41,91.21,1),

(4,"Samar",30,88.45,2),

(5,"Sania",27,68.44,3),

(6,"Fawad",51,71.87,4),

(7,"Raza",30,62.32,1);

SELECT \* FROM marks INNER JOIN city ON marks.CITY=city.cid;

SELECT m.id,m.NAME,m.AGE,m.PERCENTAGE,c.CityName FROM marks m INNER JOIN city c ON m.CITY=c.cid;

SELECT \* FROM marks left JOIN city ON marks.CITY=city.cid;

SELECT m.id,m.NAME,m.AGE,m.PERCENTAGE,c.CityName FROM marks m LEFT JOIN city c ON m.CITY=c.cid

WHERE AGE >22

ORDER BY NAME;

SELECT m.id,m.NAME,m.AGE,m.PERCENTAGE,c.CityName FROM marks m RIGHT JOIN city c ON m.CITY=c.cid;

SELECT \* FROM marks CROSS JOIN city;

SELECT m.id,m.NAME,m.AGE,m.PERCENTAGE,c.CityName FROM marks m CROSS JOIN city c;

CREATE TABLE Courses (

id INT NOT NULL AUTO\_INCREMENT,

Course\_Name VARCHAR(40) NOT NULL,

PRIMARY KEY (id)

);

INSERT INTO courses(id,Course\_Name)

VALUES

(1,"Digital logic and Design"),

(2,"Object orient programming"),

(3,"Enterpreneurship");

ALTER TABLE bio.student ADD COLUMN ‘Course\_id’ VARCHAR(30) NOT NULL AFTER CITY;

SELECT \* FROM marks m INNER JOIN city c ON m.CITY=c.cid INNER JOIN courses cr ON m.course\_id=cr.id;

SELECT m.id,m.NAME,m.AGE,m.PERCENTAGE,c.CityName,cr.Course\_Name FROM marks m INNER JOIN city c ON m.CITY=c.cid INNER JOIN courses cr ON m.course\_id=cr.id;

SELECT NAME FROM marks WHERE Course\_id = (SELECT id FROM courses WHERE Course\_Name = "Enterpreneurship");

SELECT NAME FROM marks WHERE course\_id IN (SELECT id FROM courses WHERE Course\_Name IN ("Enterpreneurship","Object orient programming"));

SELECT NAME FROM marks WHERE EXISTS (SELECT id FROM courses WHERE Course\_Name IN ("Enterpreneurship","Object orient programming"));

SELECT NAME FROM marks WHERE NOT EXISTS (SELECT id FROM courses WHERE Course\_Name IN ("Enterpreneurship","Object orient programming"));

CREATE TABLE Lectrures(

id INT NOT NULL AUTO\_INCREMENT,

NAME VARCHAR(30) NOT NULL,

AGE INT (11) NOT NULL,

PERCENTAGE DOUBLE NOT NULL,

CITY INT (11),

Course\_id VARCHAR(45),

PRIMARY KEY (id)

);

INSERT INTO lectrures(id,NAME,AGE,PERCENTAGE,CITY,Course\_id)

VALUES

(1,"Faheem",12,33.22,1,3),

(2,"Hania",51,42.12,3,1),

(3,"Sawera",41,34.31,4,2),

(4,"Maheen",31,71.67,1,3),

(5,"Momina",54,67.21,3,1),

(6,"Rehan",33,87.16,2,2),

(7,"Raza",42,88.12,3,1);

SELECT \* FROM marks UNION SELECT \* FROM lectrures;

SELECT NAME FROM marks UNION SELECT NAME FROM lectrures;

SELECT NAME FROM marks UNION ALL SELECT NAME FROM lectrures;

SELECT NAME,AGE FROM marks m INNER JOIN courses c ON m.Course\_id=c.id WHERE c.Course\_Name = "Digital logic and Design" UNION ALL SELECT NAME,AGE FROM lectrures l INNER JOIN courses c ON l.Course\_id=c.id WHERE c.Course\_Name = "Digital logic and Design" ;

SELECT id,NAME,PERCENTAGE, IF(PERCENTAGE >=33,"pass","fail") AS RESULT FROM marks;

SELECT id,NAME,PERCENTAGE,

CASE

WHEN PERCENTAGE >= 80 AND PERCENTAGE <=100 THEN "A1"

WHEN PERCENTAGE >= 70 AND PERCENTAGE < 80 THEN "A"

WHEN PERCENTAGE >= 60 AND PERCENTAGE < 70 THEN "B"

WHEN PERCENTAGE >= 50 AND PERCENTAGE < 60 THEN "C"

WHEN PERCENTAGE < 45 THEN "FAIL"

ELSE "NOT CORRECT"

END

AS GRADE

FROM marks;

UPDATE marks SET

PERCENTAGE = (CASE id

WHEN 4 THEN 51.22

WHEN 7 THEN 88.12

END) WHERE id IN (4,7);

SELECT 45 DIV 3 AS TOTAL;

SELECT id,NAME,(PERCENTAGE +2) AS "NEW PERCENTAGE"

FROM marks;

SELECT PI();

SELECT ROUND(4.51);

SELECT CEIL(1.65);

SELECT FLOOR(1.65);

SELECT POW(2,4);

SELECT SQRT(64);

SELECT ROUND(SQRT(5));

SELECT FLOOR(1+RAND()\*5);

SELECT id,NAME,(PERCENTAGE +2) AS "NEW PERCENTAGE"

FROM marks ORDER BY RAND();

SELECT ABS(-23);

SELECT id,UPPER(NAME) AS Name,PERCENTAGE FROM marks ;

SELECT id,UCASE(NAME) AS Name,PERCENTAGE FROM marks ;

SELECT id,LOWER(NAME) AS Name,PERCENTAGE FROM marks ;

SELECT id,LCASE(NAME) AS Name,PERCENTAGE FROM marks ;

SELECT id,NAME ,CHARACTER\_LENGTH(NAME) AS "CHARACTER\_LENGTH",PERCENTAGE FROM marks ;

SELECT id,NAME ,LENGTH(NAME) AS bytes ,PERCENTAGE FROM marks ;

SELECT id,NAME ,CONCAT(NAME,"-",AGE) AS CONCATINATION ,PERCENTAGE FROM marks ;

SELECT CONCATE("hey","there","my","name") AS CONCATE;

SELECT CONCATE\_WS("hey","there","my","name") AS SAVE;

SELECT LTRIME(" hey") AS NAME;

SELECT RTRIME(" hey") AS NAME;

SELECT TRIME(" hey") AS NAME;

SELECT position("a" IN "whats up bro") AS POSITION;

SELECT INSTR("whats up bro","up") AS POSITION;

SELECT SUBSTRING("hey there who",4);

SELECT SUBSTRING("hey there who",4,3);

SELECT SUBSTR("hey there who",-4,7);

SELECT MID("hey there who",-4,7);

SELECT substring\_index("hey.there who.","h",2);

SELECT LEFT("hey.there who.",3);

SELECT RIGHT("hey.there who.",3);

SELECT REVERSE("hey.there who.");

SELECT RPAD("there who",9,"AB") AS RESULT;

SELECT LPAD("there who",9,"AB") AS RESULT;

SELECT SPACE(60) AS RESULT;

SELECT REVERSE("Tera muun") AS RESULT;

SELECT REPLACE("Tera muun","muun","karachi") AS RESULT;

SELECT REPLACE("Tera muun Tera muun","muun","karachi") AS RESULT;

SELECT STRCMP("Tera muun","tera muun") AS RESULT;

SELECT STRCMP("Tera ","tera muun") AS RESULT;

SELECT STRCMP("Tera muun"," muun") AS RESULT;

SELECT FIELD(11,1,5,7,3,1,3,5,7,1,11,4,3,6,7,8) AS RESULT;

SELECT FIND\_IN\_SET("khaali","ay,ja,ray,baba,khaali,peeli,time,khooti,nai,karnay,ka") AS RESULT;

SELECT FORMAT(2.3123313567,4) AS RESULT;

SELECT HEX("AHMED") AS RESULT;

SELECT CURRENT\_DATE() AS RESULT;

SELECT CURDATE() AS RESULT;

SELECT SYSDATE() AS RESULT;

SELECT NOW() AS RESULT;

SELECT DATE("2020-12-09 10:34:21") AS RESULT;

SELECT MONTH("2020-12-09 10:34:21") AS RESULT;

SELECT MONTHNAME("2020-12-09 10:34:21") AS RESULT;

SELECT YEAR("2020-12-09 10:34:21") AS RESULT;

SELECT id,pname,birth\_date ,YEAR(birth\_date) as RESULT FROM student.me;

SELECT id,pname,birth\_date ,MONTHNAME(birth\_date) as RESULT FROM student.me;

SELECT QUARTER("2020-12-09 10:34:21") AS RESULT; // jan-march=1,April-jun=2,July-sep=3,oct-dec=4

SELECT DAY("2020-12-09 10:34:21") AS RESULT;

SELECT DAYNAME("2020-12-09 10:34:21") AS RESULT;

SELECT DAYOFMONTH("2020-12-09 10:34:21") AS RESULT;

SELECT DAYOFWEEK("2020-12-09 10:34:21") AS RESULT;

SELECT DAYOFWEEK("2020-12-09 10:34:21") AS RESULT;

SELECT DAYOFYEAR("2020-12-09 10:34:21") AS RESULT;

SELECT WEEK("2020-12-09 10:34:21") AS RESULT;

SELECT WEEKDAY("2020-12-09 10:34:21") AS RESULT;

SELECT YEARWEEK("2020-12-09 10:34:21") AS RESULT;

SELECT LAST\_DAY("2020-2-09 10:34:21") AS RESULT;

SELECT EXTRACT(MONTH FROM "2020-2-09 10:34:21") AS RESULT;

SELECT EXTRACT(MONTH FROM "2020-2-09 10:34:21") AS RESULT;

SELECT EXTRACT(MINUTE FROM "2020-2-09 10:34:21") AS RESULT;

SELECT ADDDATE("2020-04-21", INTERVAL 5 DAY) AS DATE;

SELECT ADDDATE("2020-04-21", INTERVAL 7000 MINUTE) AS DATE;

SELECT ADDDATE("2020-04-21", INTERVAL 2 WEEK) AS DATE;

SELECT ADDDATE("2020-04-21", INTERVAL 4 QUARTER) AS DATE;

SELECT DATE\_ADD("2020-04-21", INTERVAL 4 MONTH) AS DATE;

SELECT MAKEDATE(2018,03) AS RESULT; //only use for date for month jan…

SELECT SUBDATE("2020-04-21", INTERVAL 3 MONTH) AS DATE;

SELECT DATEDIFF("2020-04-21", "2019-04-21") AS DATE;

SELECT TO\_DAYS("2020-04-21") AS DATE; //since world came to existanace showing days from then…

SELECT FROM\_DAYS("2020-04-21") AS DATE;

SELECT PERIOD\_ADD("2020-04-21",4) AS DATE;

SELECT PERIOD\_DIFF("2020-04-21",4) AS DATE;

SELECT PERIOD\_DIFF("2020-04-21","2021-03-15") AS DATE;

SELECT DATE\_FORMAT("2020-04-21","%d/%b/%Y") AS DATE;

SELECT DATE\_FORMAT("2020-04-21","%d/%c/%Y") AS DATE;

SELECT DATE\_FORMAT("2020-04-21 ","%d/%c/%Y,%W") AS DATE;

SELECT DATE\_FORMAT("2020-04-21 01-43-11-23 ","%d/%c/%Y, %h-%i") AS DATE;

SELECT STR\_TO\_DATE("NOV 16 2012 ","%M %d %Y") AS DATE;

SELECT CURRENT\_TIME();

SELECT CURTIME();

SELECT current\_timeSTAMP();

SELECT LOCALTIMESTAMP();

SELECT CURRENT\_TIMESTAMP();

SELECT TIME("2019-02-22 04-05-02");

SELECT HOUR("2019-02-22 04-05-02");

SELECT SECOND("2019-02-22 04-05-02");

SELECT DAY("2019-02-22 04-05-02");

SELECT TIMEDIFF("10-03-28"," 04-05-02");

SELECT ADDTIME("2010-03-28 04-05-02.00001"," 4 04:02:02.00002");

SELECT SUBTIME("2010-03-28 04-05-02.00001"," 4 04:02:02.00002");

SELECT MAKETIME(12,3,4);

SELECT TIMESTAMP("2020-03-16","07-44-32");

SELECT TIME\_FORMAT("12:44:32","%H-%i-%s %p");

SELECT TIME\_TO\_SEC("12:44:32");

SELECT SEC\_TO\_TIME("32");

ALTER TABLE bio ADD EMAIL VARCHAR(255);

ALTER TABLE bio MODIFY EMAIL VARCHAR(255) AFTER NAME;

ALTER TABLE bio MODIFY EMAIL int(11);

ALTER TABLE bio ADD UNIQUE (EMAIL) ;

ALTER TABLE bio CHANGE EMAIL EMAIL\_ID VARCHAR(255) ;

ALTER TABLE bio DROP COLUMN EMAIL\_ID;