***Queries of MySQL for Minor Project : Academic Evaluation System***

// creating database

CREATE DATABASE academic\_evaluation;

// list of all databases;

SHOW DATABASES;

// using any specific database

USE academic\_evaluation;

// to get all table name

SHOW TABLES;

// creating table : “login”

CREATE TABLE login(

userid VARCHAR(20) PRIMARY KEY,

password VARCHAR(20),

category VARCHAR(5)

);

// inserting values in table : “login”

INSERT INTO login(userid,password,category) VALUES('2223BTEAIML4088','Yash@1234','S');

INSERT INTO login(userid,password,category) VALUES('Yash','4088','S');

// creating table: "facultyinfo"

CREATE TABLE facultyinfo(

userid VARCHAR(20) PRIMARY KEY,

fname VARCHAR(20) ,

lname VARCHAR(20),

email VARCHAR(40),

phone VARCHAR(10),

dname VARCHAR(50),

gender VARCHAR(5),

address VARCHAR(100),

FOREIGN KEY(userid) REFERENCES login(userid) ON DELETE CASCADE ON UPDATE CASCADE

);

// inserting values in table : “facultyinfo”

INSERT INTO facultyinfo(userid,fname,lname,email,phone,dname,gender,address) VALUES('1000','Fname','Lname','1000@gmail.com','0123456789','CS','Male','1 A colony, B, C');

// join query to get userid and password from login table and other details like fname, lname, email etc from facultyinfo table

SELECT login.userid,login.password,facultyinfo.fname,facultyinfo.lname FROM login INNER JOIN facultyinfo ON login.userid=facultyinfo.userid;

// to delete any table:

DROP TABLE table\_name;

// update 'facultyinfo' table :

UPDATE facultyinfo SET fname ='newfname', lname ='newlname', email ='newemail', phone ='newphone', dname = 'newdname', gender = 'updatedvalue', address = 'new address' WHERE userid = 'userid';

// example of update

UPDATE facultyinfo SET fname ='Fname', lname ='Lname', email ='1000@gmail.com', phone ='9988776655', dname = 'CSE', gender = 'Male', address = 'address of 1000' WHERE userid = '1000';

// creating table: "studentinfo"

CREATE TABLE studentinfo (

userid VARCHAR(20) PRIMARY KEY,

fname VARCHAR(20) ,

lname VARCHAR(20),

dept\_name VARCHAR(50),

course VARCHAR(20),

course\_branch VARCHAR(20),

admission\_year VARCHAR(4),

dob VARCHAR(10),

email VARCHAR(40),

phone VARCHAR(10),

gender VARCHAR(5),

address VARCHAR(100),

FOREIGN KEY(userid) REFERENCES login(userid) ON DELETE CASCADE ON UPDATE CASCADE

);

// inserting values in table : “studentinfo”

INSERT INTO studentinfo(userid,fname,lname,dept\_name,course,course\_branch,admission\_year,dob,email,phone,gender,address) VALUES('1000','Fname','Lname','Name of department','Course Name','Course Branch Name','Admission Year','Date of Birth','1000@gmail.com','0123456789' ,'Male','1 A colony, B, C');

// Example I used…..

INSERT INTO studentinfo(userid,fname,lname,dept\_name,course,course\_branch,admission\_year,dob,email,phone,gender,address) VALUES('2223BTEAIML4088', 'TestS1FN', ' TestS1LN ', 'Computer Science & Engineering', 'B.Tech', 'CS-AIML', '2022', '30-03-2025', '1TS@gmail.com', '0123456789' , 'Male', '1TSAddress');

**-------- Final Queries: --------**

**// creating database**

CREATE DATABASE academic\_evaluation\_db;

// name of the database : academic\_evaluation\_db

**// creating table : "login"**

CREATE TABLE login(

userid VARCHAR(20) PRIMARY KEY,

password VARCHAR(20),

category VARCHAR(5)

);

// inserting values in table : “login”

INSERT INTO login(userid, password, category) VALUES('2223BTEAIML4088','Yash@1234','S');

INSERT INTO login(userid, password, category) VALUES('Yash','4088','S');

**// creating table: "teacher"**

CREATE TABLE teacher (

teacher\_id VARCHAR(20) PRIMARY KEY,

full\_name VARCHAR(50) NOT NULL,

email VARCHAR(25) UNIQUE NOT NULL,

phone VARCHAR(10),

department\_id VARCHAR(20),

designation VARCHAR(30),

salary DECIMAL(10, 2),

gender ENUM('Male', 'Female', 'Other'),

address VARCHAR(200),

FOREIGN KEY (teacher\_id) REFERENCES login(userid)

ON DELETE CASCADE

ON UPDATE CASCADE,

FOREIGN KEY (department\_id) REFERENCES department(department\_id)

ON DELETE SET NULL

ON UPDATE CASCADE

);

**// Remaining to update -->**

// inserting values in table : “facultyinfo”

INSERT INTO facultyinfo(userid,fname,lname,email,phone,dname,gender,address) VALUES('1000','Fname','Lname','1000@gmail.com','0123456789','CS','Male','1 A colony, B, C');

// join query to get userid and password from login table and other details like fname, lname, email etc from facultyinfo table

SELECT login.userid,login.password,facultyinfo.fname,facultyinfo.lname FROM login INNER JOIN facultyinfo ON login.userid=facultyinfo.userid;

// to delete any table:

DROP TABLE table\_name;

// update 'facultyinfo' table :

UPDATE facultyinfo SET fname ='newfname', lname ='newlname', email ='newemail', phone ='newphone', dname = 'newdname', gender = 'updatedvalue', address = 'new address' WHERE userid = 'userid';

// example of update

UPDATE facultyinfo SET fname ='Fname', lname ='Lname', email ='1000@gmail.com', phone ='9988776655', dname = 'CSE', gender = 'Male', address = 'address of 1000' WHERE userid = '1000';

**------- Upto Here updation remaining**

**// creating table: "student"**

CREATE TABLE student (

student\_id VARCHAR(20) PRIMARY KEY,

full\_name VARCHAR(50) NOT NULL,

dob DATE,

gender ENUM('Male', 'Female', 'Other'),

email VARCHAR(25) UNIQUE,

phone VARCHAR(10),

address VARCHAR(200),

admission\_year YEAR,

department\_id VARCHAR(20),

course\_name VARCHAR(50),

course\_branch VARCHAR(50),

FOREIGN KEY (student\_id) REFERENCES login(userid)

ON DELETE CASCADE

ON UPDATE CASCADE,

FOREIGN KEY (department\_id) REFERENCES department(department\_id)

ON DELETE SET NULL

ON UPDATE CASCADE

);

**// Remaining to update**

// inserting values in table : “studentinfo”

INSERT INTO studentinfo(userid,fname,lname,dept\_name,course,course\_branch,admission\_year,dob,email,phone,gender,address) VALUES('1000','Fname','Lname','Name of department','Course Name','Course Branch Name','Admission Year','Date of Birth','1000@gmail.com','0123456789' ,'Male','1 A colony, B, C');

// Example I used…..

INSERT INTO studentinfo(userid,fname,lname,dept\_name,course,course\_branch,admission\_year,dob,email,phone,gender,address) VALUES('2223BTEAIML4088', 'TestS1FN', ' TestS1LN ', 'Computer Science & Engineering', 'B.Tech', 'CS-AIML', '2022', '30-03-2025', '1TS@gmail.com', '0123456789' , 'Male', '1TSAddress');

**// upto here ---**

**// creating table: "department"**

CREATE TABLE department (

department\_id VARCHAR(20) PRIMARY KEY,

department\_name VARCHAR(50) NOT NULL UNIQUE

);

// insert values

INSERT INTO department (department\_id, department\_name)

VALUES

('ENG', 'Engineering'),

('MGMT', 'Management');

**// creating table: "course"**

CREATE TABLE course (

course\_id VARCHAR(20) PRIMARY KEY,

course\_name VARCHAR(100) NOT NULL,

department\_id VARCHAR(20),

FOREIGN KEY (department\_id) REFERENCES department(department\_id)

ON DELETE SET NULL

ON UPDATE CASCADE

);

// insert values

INSERT INTO course(course\_id,course\_name,department\_id)

VALUES

('BT', 'Bachelor of Technology','ENG'),

('MT', 'Master of Technology','ENG');

INSERT INTO course(course\_id,course\_name,department\_id)

VALUES

('BCA', 'Bachelor of Computer Applications','ENG');

**// creating table: "branch"**

CREATE TABLE branch (

branch\_id VARCHAR(20) PRIMARY KEY,

branch\_name VARCHAR(100) NOT NULL,

course\_id VARCHAR(20),

FOREIGN KEY (course\_id) REFERENCES course(course\_id)

ON DELETE SET NULL

ON UPDATE CASCADE

);

// insert values

INSERT INTO branch(branch\_id,branch\_name,course\_id)

VALUES

('CSE','Computer Science & Engineering','BT');

INSERT INTO branch(branch\_id,branch\_name,course\_id)

VALUES

('ME','Mechanical Engineering','BT'),

('CE','Civil Engineering','BT');

**// creating table: "subject"**

CREATE TABLE subject (

subject\_id INT PRIMARY KEY AUTO\_INCREMENT,

subject\_code VARCHAR(20),

subject\_name VARCHAR(100),

course\_id VARCHAR(20),

branch\_id VARCHAR(20),

semester INT,

curriculum\_year YEAR,

UNIQUE(subject\_code, curriculum\_year),

FOREIGN KEY (course\_id) REFERENCES course(course\_id),

FOREIGN KEY (branch\_id) REFERENCES branch(branch\_id)

);

// insert values

INSERT INTO subject (

subject\_code, subject\_name, course\_id, branch\_id, semester, curriculum\_year

) VALUES (

'CS201', 'Data Structures', 'BT', 'CS', 3, 2021

);

// subjects of BCA for curriculum year 2022

INSERT INTO subject (subject\_code, subject\_name, course\_id, branch\_id, semester, curriculum\_year) VALUES

('BCAAIDA-101', 'Communication Skills', 'BCA', 'AIDA', 1, 2022),

('BCAAIDA-102', 'Computer Fundamentals', 'BCA', 'AIDA', 1, 2022),

('BCAAIDA-103', 'Discrete Mathematics', 'BCA', 'AIDA', 1, 2022),

('BCAAIDA-104', 'C Programming', 'BCA', 'AIDA', 1, 2022),

('BCAAIDA-105', 'Foundation of Artificial Intelligence','BCA','AIDA', 1, 2022);

INSERT INTO subject (subject\_code, subject\_name, course\_id, branch\_id, semester, curriculum\_year) VALUES

('BCAAIDA-201', 'Financial Accounting', 'BCA', 'AIDA', 2, 2022),

('BCAAIDA-202', 'Database Management Systems', 'BCA', 'AIDA', 2, 2022),

('BCAAIDA-203', 'Data Structures & Algorithms with C','BCA','AIDA',2,2022),

('BCAAIDA-204', 'Python Programming', 'BCA', 'AIDA', 2, 2022),

('BCAAIDA-205', 'C Programming', 'BCA', 'AIDA', 2, 2022);

INSERT INTO subject (subject\_code, subject\_name, course\_id, branch\_id, semester, curriculum\_year) VALUES

('BCAAIDA-301', 'Statistics & Probability with Python','BCA','AIDA',3,2022),

('BCAAIDA-302', 'R Programming', 'BCA','AIDA',3,2022),

('BCAAIDA-303', 'Web Development', 'BCA','AIDA',3,2022),

('BCAAIDA-304', 'Data Communication', 'BCA','AIDA',3,2022);

INSERT INTO subject (subject\_code, subject\_name, course\_id, branch\_id, semester, curriculum\_year) VALUES

('BCAAIDA-401', 'Data Science Tools & Techniques', 'BCA','AIDA',4,2022),

('BCAAIDA-402', 'Java Programming', 'BCA','AIDA',4,2022),

('BCAAIDA-403', 'Internet of Things (IoT)', 'BCA','AIDA',4,2022);

INSERT INTO subject (subject\_code, subject\_name, course\_id, branch\_id, semester, curriculum\_year) VALUES

('BCAAIDA-501', 'Big Data Analytics with PySpark','BCA','AIDA',5,2022),

('BCAAIDA-502', 'Software Engineering', 'BCA','AIDA',5,2022),

('BCAAIDA-503', 'Cloud Computing', 'BCA','AIDA',5,2022);

INSERT INTO subject (subject\_code, subject\_name, course\_id, branch\_id, semester, curriculum\_year) VALUES

('BCAAIDA-601', 'Linux & Shell Programming', 'BCA','AIDA',6,2022),

('BCAAIDA-602', 'Image Processing', 'BCA','AIDA',6,2022),

('BCAAIDA-603', 'Theory of Computation', 'BCA','AIDA',6,2022);

// for 8th sem subjects of B. Tech ME 🡪

INSERT INTO subject (subject\_code, subject\_name, course\_id, branch\_id, semester, curriculum\_year) VALUES

('BTME-801', 'Refrigeration and Air Conditioning II', 'BT', 'ME', 8, 2022),

('BTME-802', 'Machine Design III', 'BT', 'ME', 8, 2022);

**-------- similarly add multiple subjects--------------**

**// creating table "marks"**

CREATE TABLE marks (

marks\_id INT AUTO\_INCREMENT PRIMARY KEY,

student\_id VARCHAR(20),

subject\_id INT,

subject\_code VARCHAR(20),

marks\_obtained DECIMAL(5, 2),

total\_marks DECIMAL(5, 2),

FOREIGN KEY (student\_id) REFERENCES student(student\_id)

ON DELETE CASCADE

ON UPDATE CASCADE,

FOREIGN KEY (subject\_id) REFERENCES subject(subject\_id)

ON DELETE CASCADE

ON UPDATE CASCADE

);

**// Sequence to Execute the queries are as follows:**

1. **login**
2. **department**
3. **course**
4. **branch**
5. **subject**
6. **teacher**
7. **student**
8. **marks**

This sequence is required for proper creation of tables in database without errors.