```sql
START TRANSACTION;

CREATE TABLE Students (
    Enrollment_Id BIGINT,
    First_Name VARCHAR(100) NOT NULL,
    Last_Name VARCHAR(100) NOT NULL,
    Phone_Number BIGINT,
    Email_Id VARCHAR(100),
    Branch VARCHAR(100) NOT NULL DEFAULT 'CSE(IoT)',
    Batch CHAR(4) NOT NULL,
    PRIMARY KEY(Enrollment_Id)
);

INSERT INTO
Students(Enrollment_Id,First_Name,Last_Name,Phone_Number,Email_Id,Branch,Batch)
VALUES
(12302110501001,'AARAV','SAROLIYA',NULL,NULL,'CSE(IoT)','1A11'),
(12302110501002,'AARAV','PARMAR',NULL,NULL,'CSE(IoT)','1A11'),
(12302110501003,'ADITYA','CHOTALIA',NULL,NULL,'CSE(IoT)','1A11'),
(12302110501004,'ANKIT','PALANI',NULL,NULL,'CSE(IoT)','1A11'),
(12302110501005,'DARSHIL','PATEL',NULL,NULL,'CSE(IoT)','1A11'),
(12302110501006,'DEVANSH','CHANPURA',NULL,NULL,'CSE(IoT)','1A11'),
(12302110501007,'DEVGIRI','GONSAI',NULL,NULL,'CSE(IoT)','1A11'),
(12302110501008,'DHRUV','MODI',NULL,NULL,'CSE(IoT)','1A11'),
(12302110501009,'DHRUV','PATEL',NULL,NULL,'CSE(IoT)','1A11'),
(12302110501010,'DHRUVIBEN','RADADIYA',NULL,NULL,'CSE(IoT)','1A11'),
(12302110501011,'DHRUVIN','KAKADIYA ',NULL,NULL,'CSE(IoT)','1A11'),
(12302110501012,'DHRUVISH','DHAMECHA',NULL,NULL,'CSE(IoT)','1A11'),
(12302110501013,'DHWANI','VYAS',NULL,NULL,'CSE(IoT)','1A11'),
(12302110501014,'DISHANT','PATEL',NULL,NULL,'CSE(IoT)','1A11'),
(12302110501015,'DWEEP','MAHYAVANSHI',NULL,NULL,'CSE(IoT)','1A11'),
(12302110501016,'HARSH','KATBA',NULL,NULL,'CSE(IoT)','1A11'),
(12302110501017,'HARSHRAJSINH','KATHVADIYA',NULL,NULL,'CSE(IoT)','1A11'),
(12302110501018,'HET','SANGHANI',NULL,NULL,'CSE(IoT)','1A11'),
(12302110501019,'HET','PATEL',NULL,NULL,'CSE(IoT)','1A11'),
(12302110501020,'HET','CHAPDIYA',NULL,NULL,'CSE(IoT)','1B11'),
(12302110501021,'HETKUMAR','PATEL',NULL,NULL,'CSE(IoT)','1B11'),
(12302110501022,'JASHKUMAR','BORAD',NULL,NULL,'CSE(IoT)','1B11'),
(12302110501023,'JASH','PATEL',NULL,NULL,'CSE(IoT)','1B11'),
(12302110501024,'JEET','KALATHIYA',NULL,NULL,'CSE(IoT)','1B11'),
(12302110501025,'JWALKUMAR','PATEL',NULL,NULL,'CSE(IoT)','1B11'),
(12302110501026,'KANISH','THAKKAR',NULL,NULL,'CSE(IoT)','1B11'),
(12302110501027,'KAVYA','TANDEL',NULL,NULL,'CSE(IoT)','1B11'),
(12302110501028,'KAVYA','PATEL',NULL,NULL,'CSE(IoT)','1B11'),
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(12302110501029,'KIRTANSINH','SINDHA',NULL,NULL,'CSE(IoT)','1B11'),
(12302110501030,'KRISHIL','PATEL',NULL,NULL,'CSE(IoT)','1B11'),
(12302110501031,'KRUSHNA','HANSOTI',NULL,NULL,'CSE(IoT)','1B11'),
(12302110501032,'KUSH','PATEL',NULL,NULL,'CSE(IoT)','1B11'),
(12302110501033,'KUSH','TEJANI',NULL,NULL,'CSE(IoT)','1B11'),
(12302110501034,'MAITRI','PAREJIYA',NULL,NULL,'CSE(IoT)','1B11'),
(12302110501035,'MOHIT','BHATIA',NULL,NULL,'CSE(IoT)','1B11'),
(12302110501036,'MUFFADAL','HALAI',NULL,NULL,'CSE(IoT)','1B11'),
(12302110501037,'OM','SURYAWANSHI',NULL,NULL,'CSE(IoT)','1B11'),
(12302110501038,'OM','VASANI',NULL,NULL,'CSE(IoT)','1B11'),
(12302110501039,'PRAGNESHKUMAR','PARMAR',NULL,NULL,'CSE(IoT)','1C11'),
(12302110501040,'RISHIT','GOKANI',NULL,NULL,'CSE(IoT)','1C11'),
(12302110501041,'RUDRA','PATEL',NULL,NULL,'CSE(IoT)','1C11'),
(12302110501042,'RUDRA','BHADANI',NULL,NULL,'CSE(IoT)','1C11'),
(12302110501043,'RUDRAKSH','SHAH',NULL,NULL,'CSE(IoT)','1C11'),
(12302110501044,'RUTANG','PATEL',NULL,NULL,'CSE(IoT)','1C11'),
(12302110501045,'SANGITABEN','BHOI',NULL,NULL,'CSE(IoT)','1C11'),
(12302110501046,'SANVI','PATEL',NULL,NULL,'CSE(IoT)','1C11'),
(12302110501047,'SHREYA','DODIYA',NULL,NULL,'CSE(IoT)','1C11'),
(12302110501048,'SMITKUMAR','PATEL',NULL,NULL,'CSE(IoT)','1C11'),
(12302110501049,'SMIT','SAVANI',NULL,NULL,'CSE(IoT)','1C11'),
(12302110501050,'SNEH','PATEL',NULL,NULL,'CSE(IoT)','1C11'),
(12302110501051,'SUJAL','PATEL',NULL,NULL,'CSE(IoT)','1C11'),
(12302110501052,'TANVI','PANCHAL',NULL,NULL,'CSE(IoT)','1C11'),
(12302110501053,'TIRTH','RATANPARA',NULL,NULL,'CSE(IoT)','1C11'),
(12302110501054,'TISHABEN','PATEL',NULL,NULL,'CSE(IoT)','1C11'),
(12302110501055,'VEER','SHAH',
9825439633,'12302110501055@gcet.ac.in','CSE(IoT)','1C11'),
(12302110501056,'VIVEK','JOSHI',NULL,NULL,'CSE(IoT)','1C11'),
(12302110501057,'VRAJ','PATEL',NULL,NULL,'CSE(IoT)','1C11'),
(12302110501058,'VRAJESHKUMAR','KALIYA',NULL,NULL,'CSE(IoT)','1D11'),
(12302110501059,'YASH','ANDHARIYA',NULL,NULL,'CSE(IoT)','1D11'),
(12302110501060,'YASHVI','PATEL',NULL,NULL,'CSE(IoT)','1D11'),
(12302110501061,'YAXIT','DESAI',NULL,NULL,'CSE(IoT)','1D11'),
(12302110501062,'ZEEL','DHABHA',NULL,NULL,'CSE(IoT)','1D11'),
(12302110501063,'ZINAL','JAIN',NULL,NULL,'CSE(IoT)','1D11'),
(12302110501064,'ABHI','GABANI',NULL,NULL,'CSE(IoT)','1D11'),
(12302110501065,'ADITYA','SITAPARA',NULL,NULL,'CSE(IoT)','1D11'),
(12302110501066,'ARYAN','SABHADIYA',NULL,NULL,'CSE(IoT)','1D11'),
(12302110501067,'BHARGAVKUMAR','PATEL',NULL,NULL,'CSE(IoT)','1D11'),
(12302110501068,'DARSHAN','PATEL',NULL,NULL,'CSE(IoT)','1D11'),
(12302110501069,'GOVIND','KHANDELWAL',NULL,NULL,'CSE(IoT)','1D11'),
(12302110501070,'HARDEE','DESAI',NULL,NULL,'CSE(IoT)','1D11'),
(12302110501071,'KASHISH','PATEL',NULL,NULL,'CSE(IoT)','1D11'),
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(12302110501072,'KAVYA','MEHTA',NULL,NULL,'CSE(IoT)','1D11'),
(12302110501073,'KHUSHI','PATEL',NULL,NULL,'CSE(IoT)','1D11'),
(12302110501074,'KIRTANKUMAR','BHOI',NULL,NULL,'CSE(IoT)','1D11'),
(12302110501075,'KRUNAL','KADTAN',NULL,NULL,'CSE(IoT)','1D11'),
(12302110501076,'MAHAMMADALMAZ','VAHORA',NULL,NULL,'CSE(IoT)','1D11'),
(12302110501077,'MANN','UPADHYAY',NULL,NULL,'CSE(IoT)','1E11'),
(12302110501078,'NEEL','UMRETIYA',NULL,NULL,'CSE(IoT)','1E11'),
(12302110501079,'NEVIL','MAKASANA',NULL,NULL,'CSE(IoT)','1E11'),
(12302110501080,'POOJAN','PATEL',NULL,NULL,'CSE(IoT)','1E11'),
(12302110501081,'SHREY','PATEL',NULL,NULL,'CSE(IoT)','1E11'),
(12302110501082,'SNEH','GABANI',NULL,NULL,'CSE(IoT)','1E11'),
(12302110501083,'SWASTIK','PANDYA',NULL,NULL,'CSE(IoT)','1E11'),
(12302110501084,'UTKARSH','PANDYA',NULL,NULL,'CSE(IoT)','1E11'),
(12302110501085,'VANSH','BHANUSHALUI',NULL,NULL,'CSE(IoT)','1E11'),
(12302110501086,'YASHVI','SIMEJIYA',NULL,NULL,'CSE(IoT)','1E11'),
(12302110501087,'MANAN','SHETH',NULL,NULL,'CSE(IoT)','1E11');

UPDATE Students
SET Phone_Number = FLOOR(RAND() * 9000000000) + 1000000000
WHERE Phone_Number IS NULL;

UPDATE Students
SET Email_id = CONCAT(LOWER(first_name),'.', LOWER(last_name),'@gmail.com')
WHERE Email_Id IS NULL;

CREATE TABLE Subjects(
    Subject_Id INT,
    Name VARCHAR(100) NOT NULL,
    Credits INT NOT NULL,
    Semester INT,
    PRIMARY KEY (Subject_Id)
);

INSERT INTO Subjects VALUES
(202001206,'CONSTITUTION OF INDIA',0,1),
(202001208,'ENGINEERING GRAPHICS',2,1),
(202000104,'CALCULUS',4,1),
(202001213,'PHYSICS',4,1),
(202000110,'COMPUTER PROGRAMMING WITH C',4,1),
(202001207,'ENERGY AND ENVIRONMENT SCIENCE',3,1),

(202001202,'BASIC MECHANICAL ENGINEERING',4,2),
(202001215,'PROFESSIONAL COMMUNICATION',3,2),
(202001209,'ENGINEERING WORKSHOP',2,2),
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    (202001203,'BASICS OF ELECTRICAL AND ELECTRONICS ENGINEERING',4,2),
    (202000212,'OBJECT ORIENTED PROGRAMMING',4,2),
    (202000211,'LINEAR ALGEBRA, VECTOR CALCULUS AND ODE',4,2),
    (000000000,'Liberal Arts',2,2),

    (202000303,'Probability - Statistics and Numerical Methods',4,3),
    (202003402,'Fundamentals of Economics and Business Management',3,3),
    (202003403,'Indian Ethos and Value Education',0,3),
    (202040301,'Data Structures',5,3),
    (202040303,'Digital Fundamentals',4,3),
    (202040302,'Database Management Systems',5,3),
    (900009901,'Creativity, Problem Solving and Innovation',2,3),
    (202180301,'Elements of Robotics and Kinematics of Robot',3,3),
    (000000001,'Automotive Systems',3,3);

CREATE TABLE Subject_Type(
    Type_Id VARCHAR(5),
    Type VARCHAR(10),
    PRIMARY KEY (Type_Id)
);

INSERT INTO Subject_Type VALUES
('P','Practical'),
('T','Theory');

CREATE TABLE Results (
    ID INT AUTO_INCREMENT,
    Subject_Id INT,
    Enrollment_Id BIGINT,
    Exam_Category VARCHAR(25) NOT NULL,
    Marks INT NOT NULL,
    PRIMARY KEY(ID)
);

INSERT INTO Results (Subject_Id,Enrollment_Id,Exam_Category,Marks) VALUES
(202000303,12302110501001,'MidSem',17),
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CREATE TABLE Faculty (
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    Prefix VARCHAR(10) NOT NULL,
    First_Name VARCHAR(100) NOT NULL,
    Last_Name VARCHAR(100) NOT NULL,
    Phone_Number BIGINT,
    Email_Id VARCHAR(100),
    Post VARCHAR(100) NOT NULL,
    Branch_Id VARCHAR(10) NOT NULL,
    PRIMARY KEY(Faculty_Id)
);

INSERT INTO Faculty
(Faculty_Id,Prefix,First_Name,Last_Name,Phone_Number,Email_Id,Post,Branch_Id) VALUES
(0,'00','00','00',00,'00','00','00'),
(1,'Dr.','Kaushik','Nath',NULL,NULL,'Principal','CH'),
(2,'Dr.','Mathur','Bhakhar',NULL,NULL,'Head of Department & Professor','CH'),
(3,'Dr.','Anand','Metre',NULL,NULL,'Associate Professor','CH'),
(4,'Dr.','Dharmesh','Kapatel',NULL,NULL,'Associate Professor','CH'),
(5,'Dr.','Suresh','Panchani',NULL,NULL,'Assistant Professor','CH'),
(6,'Dr.','Haresh','Dave',NULL,NULL,'Principal','CH'),
(7,'Prof.','Vinaykumar','Patel',NULL,NULL,'Assistant Professor','CH'),
(8,'Prof.','Vivaksha','Patel',NULL,NULL,'Assistant Professor','CH'),
(9,'Prof.','Endrick','Contractor',NULL,NULL,'Assistant Professor','CH'),
(10,'Dr.','Mayuri','Prajapati',NULL,NULL,'Assistant Professor','CH'),
(11,'Dr.','Nikhil','Gondaliya',NULL,NULL,'Head of Department & Professor','IT'),
(12,'Dr.','Miral','Patel',NULL,NULL,'Professor','IT'),
(13,'Dr.','Hetal','Chudasama',NULL,NULL,'Associate Professor','IT'),
(14,'Prof.','Premkumar','Balani',NULL,NULL,'Assistant Professor','IT'),
(15,'Dr.','Jay','Vala',NULL,NULL,'Assistant Professor','IT'),
(16,'Prof.','Vishal','Prajapati',NULL,NULL,'Assistant Professor','IT'),
(17,'Prof.','Vinita','Shah',NULL,NULL,'Assistant Professor','IT'),
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(19,'Prof.','Rahul','Patel',NULL,NULL,'Assistant Professor','IT'),
(20,'Mr.','Sanjay','Patel',NULL,NULL,'Professor','IT'),
(21,'Mr.','Mahek','Gohil',NULL,NULL,' Assistant Professor','IT'),
(22,'Ms.','Komal','Rohit',NULL,NULL,'Professor','IT'),
(23,'Mr.','Kush','Patel',NULL,NULL,'Assistant Professor','IT'),
(24,'Ms.','Rinal','Patel',NULL,NULL,'Assistant Professor','IT'),
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(161,'Prof.','Parthesh','Mankodi',NULL,NULL,'Assistant Professor','ICT'),
(162,'Prof.','Deven','Trivedi',NULL,NULL,'Assistant Professor','ICT');

UPDATE Faculty
SET Phone_Number = FLOOR(RAND() * 9000000000) + 1000000000
WHERE Phone_Number IS NULL;

UPDATE Faculty
SET Email_id = CONCAT(LOWER(first_name), LOWER(last_name),'@gcet.ac.in')
WHERE Email_Id IS NULL;

CREATE TABLE Branches(
    Branch_Id INT,
    Name VARCHAR(100) NOT NULL,
    ID VARCHAR(10) NOT NULL,
    PRIMARY KEY(ID)
);

INSERT INTO Branches(Branch_Id,Name,ID) VALUES
(0,'00','00'),
(1,'Chemical Engineering','CH'),
(2,'Information Technology','IT'),
(3,'Computer Science & Engineering (IoT)','CSE(IoT)'),
(4,'Mechanical Engineering','ME'),
(5,'Electronics & Communication','EC'),
(6,'Information & Communication Technology','ICT'),
(7,'Mechatronics Engineering','MC'),
(8,'Computer Engineering','CP'),
(9,'Computer Science & Design','CSD'),
(10,'Electrical Engineering','EE'),
(11,'Civil Engineering','CE'),
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(12,'Applied Science & Humanities','APS&H');


CREATE TABLE Batches (
    Batch VARCHAR(5),
    Batch_Id CHAR(5),
    Branch VARCHAR(10),
    PRIMARY KEY(Batch_Id)
);

INSERT INTO Batches VALUES
('Class','0001','CSE(IoT)'),
('A','1A11','CSE(IoT)'),
('B','1B11','CSE(IoT)'),
('C','1C11','CSE(IoT)'),
('D','1D11','CSE(IoT)'),
('E','1E11','CSE(IoT)');


CREATE TABLE Attendance (
    ID INT AUTO_INCREMENT,
    Subject_Id INT NOT NULL,
    Enrollment_Id BIGINT NOT NULL,
    Type VARCHAR(2),
    Attendance VARCHAR(10),
    PRIMARY KEY(ID)
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UPDATE attendance
SET Attendance = CONCAT(ROUND(RAND() * 100,2),'%')
WHERE Attendance IS NULL;

ALTER TABLE Students
    ADD CONSTRAINT
    stu_batch FOREIGN KEY (Batch) REFERENCES Batches(Batch_Id) ON UPDATE CASCADE ON
DELETE CASCADE;

ALTER TABLE Students
    ADD CONSTRAINT
    stu_branch FOREIGN KEY (Branch) REFERENCES Branches(ID) ON UPDATE CASCADE ON
DELETE CASCADE;

ALTER TABLE Batches
    ADD CONSTRAINT
    bat_branch FOREIGN KEY (Branch) REFERENCES Branches(ID) ON UPDATE CASCADE ON
DELETE CASCADE;

ALTER TABLE Faculty
    ADD CONSTRAINT
    fac_branch FOREIGN KEY (Branch_Id) REFERENCES Branches(ID) ON UPDATE CASCADE ON
DELETE CASCADE;
ALTER TABLE Faculty_Subject
    ADD CONSTRAINT
```

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    fac_sub_subject FOREIGN KEY (Subject_Id) REFERENCES Subjects(Subject_Id) ON
UPDATE CASCADE ON DELETE CASCADE;

ALTER TABLE Faculty_Subject
    ADD CONSTRAINT
    fac_sub_batch FOREIGN KEY (Batch) REFERENCES Batches(Batch_Id) ON UPDATE CASCADE
ON DELETE CASCADE;

ALTER TABLE Faculty_Subject
    ADD CONSTRAINT
    fac_sub_faculty FOREIGN KEY (Faculty_Id) REFERENCES Faculty(Faculty_Id) ON
UPDATE CASCADE ON DELETE CASCADE;

ALTER TABLE Faculty_Subject
    ADD CONSTRAINT
    fac_sub_subject_type FOREIGN KEY (Type) REFERENCES Subject_Type(Type_Id) ON
UPDATE CASCADE ON DELETE CASCADE;

ALTER TABLE Results
    ADD CONSTRAINT
    res_stu FOREIGN KEY (Enrollment_Id) REFERENCES Students(Enrollment_Id) ON UPDATE
CASCADE ON DELETE CASCADE;

ALTER TABLE Results
    ADD CONSTRAINT
    res_sub FOREIGN KEY (Subject_Id) REFERENCES Subjects(Subject_Id) ON UPDATE
CASCADE ON DELETE CASCADE;

ALTER TABLE Attendance
    ADD CONSTRAINT
    a_stu FOREIGN KEY (Enrollment_Id) REFERENCES Students(Enrollment_Id) ON UPDATE
CASCADE ON DELETE CASCADE;

ALTER TABLE Attendance
    ADD CONSTRAINT
    a_sub FOREIGN KEY (Subject_Id) REFERENCES Subjects(Subject_Id) ON UPDATE CASCADE
ON DELETE CASCADE;

ALTER TABLE Attendance
    ADD CONSTRAINT
    a_subject_type FOREIGN KEY (Type) REFERENCES Subject_Type(Type_Id) ON UPDATE
CASCADE ON DELETE CASCADE;

COMMIT;
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