SQL QUERIES used in project

drop database College\_Mantra;

create database College\_Mantra;

use College\_Mantra;

show tables;

DROP TABLE candidate;

drop table college;

SELECT

c.Candidate\_Name,

c.Gender,

c.DOB,

c.Candidate\_Rank,

c.XII\_Percentage,

c.Category,

c.Nationality,

c.Address,

c.Email,

c.Phone,

co.College\_Name,

co.College\_Type,

co.Location,

cu.Branch\_Name,

cu.Program\_Name,

a.Allocation\_ID,

a.Payment\_Status

FROM col\_allo ca

JOIN College co ON ca.College\_ID = co.College\_ID

JOIN Course cu ON ca.Course\_ID = cu.Course\_ID

JOIN Allocation a ON ca.Allocation\_ID = a.Allocation\_ID

JOIN can\_alloc ca2 ON a.Allocation\_ID = ca2.Allocation\_ID

JOIN Candidate c ON ca2.username = c.username

WHERE co.College\_ID = 10001; -- Filter by College\_ID

-- DROP TRIGGER IF EXISTS UpdateCandidatePayment;

-- SHOW TRIGGERS;

INSERT INTO Payment (Transaction\_ID, Payment\_No, Pay\_Date)

VALUES (12159, 50, '2024-12-23');

delete from Payment

where Payment\_No=50;

INSERT INTO candidate\_payment (username, Payment\_No)

VALUES (50, 50);

delete from candidate\_payment

where Payment\_No=50;

INSERT INTO confirms (Payment\_No, Allocation\_ID)

VALUES (50, 246);

Insert Into Allocation values

(241,1);

delete from Allocation

where Allocation\_ID=241;

INSERT INTO candidate\_payment (username, Payment\_No)

VALUES (50, 51);

SELECT \* FROM Candidate;

SELECT \* FROM Payment;

SELECT \* FROM Allocation;

SELECT \* FROM College;

SELECT \* FROM Course;

SELECT \* FROM Preference;

SELECT \* FROM Seat\_Matrix;

SELECT \* FROM College\_Course;

SELECT \* FROM candidate;

SELECT \* FROM payment;

SELECT \* FROM confirms;

SELECT \* FROM allocation;

SELECT \* FROM determines;

SELECT \* FROM selected\_from;

SELECT \* FROM col\_allo;

SELECT \* FROM can\_alloc;

SELECT \* FROM can\_pref;

INSERT INTO coll\_allo Values(10001,1,252);

-- CREATE TABLE College (

-- College\_ID INT PRIMARY KEY,

-- College\_Name VARCHAR(100),

-- College\_Type VARCHAR(20),

-- Location VARCHAR(50),

-- Contact\_No VARCHAR(15),

-- Website VARCHAR(100),

-- Email VARCHAR(100)

-- );

-- CREATE TABLE Candidate (

-- username INT PRIMARY KEY,

-- Roll\_No INT,

-- Candidate\_Name VARCHAR(15),

-- Gender VARCHAR(15),

-- DOB DATE,

-- Candidate\_Rank INT,

-- XII\_Percentage INT,

-- Category VARCHAR(15),

-- Nationality VARCHAR(15),

-- Address VARCHAR(100),

-- Email VARCHAR(50),

-- Phone VARCHAR(10)

-- );

CREATE TABLE Course (

Course\_ID INT PRIMARY KEY,

Branch\_Name VARCHAR(50),

Program\_Name VARCHAR(15)

);

CREATE TABLE College\_Course (

College\_ID INT,

Course\_ID INT,

PRIMARY KEY (College\_ID, Course\_ID),

FOREIGN KEY (College\_ID) REFERENCES College(College\_ID) ON DELETE CASCADE,

FOREIGN KEY (Course\_ID) REFERENCES Course(Course\_ID) ON DELETE CASCADE

);

CREATE TABLE Seat\_Matrix (

College\_ID INT,

Course\_ID INT,

General INT,

General\_PwD INT,

OBC\_NCL INT,

OBC\_NCL\_PwD INT,

SC INT,

SC\_PwD INT,

ST INT,

ST\_PwD INT,

Total\_Seats INT,

Allocated\_Seats INT DEFAULT 0,

PRIMARY KEY (College\_ID, Course\_ID),

FOREIGN KEY (College\_ID, Course\_ID) REFERENCES College\_Course(College\_ID, Course\_ID) ON DELETE CASCADE

);

CREATE TABLE Preference (

Choice\_ID INT auto\_increment PRIMARY KEY,

Choice\_No INT ,

College\_ID INT,

Course\_ID INT,

FOREIGN KEY (College\_ID, Course\_ID) REFERENCES College\_Course(College\_ID, Course\_ID) ON DELETE CASCADE

);

CREATE TABLE can\_pref (

username INT,

Choice\_ID INT,

PRIMARY KEY (username, Choice\_ID),

FOREIGN KEY (username) REFERENCES Candidate(username) ON DELETE CASCADE,

FOREIGN KEY (Choice\_ID) REFERENCES Preference(Choice\_ID) ON DELETE CASCADE

);

CREATE TABLE can\_alloc (

username INT,

Allocation\_ID INT,

PRIMARY KEY (username, Allocation\_ID),

FOREIGN KEY (username) REFERENCES Candidate(username) ON DELETE CASCADE

);

CREATE TABLE Allocation (

Allocation\_ID INT PRIMARY KEY,

Payment\_Status VARCHAR(20),

FOREIGN KEY (Allocation\_ID) REFERENCES Preference(Choice\_ID) ON DELETE CASCADE

);

CREATE TABLE col\_allo (

College\_ID INT,

Course\_ID INT,

Allocation\_ID INT,

PRIMARY KEY (College\_ID, Course\_ID, Allocation\_ID),

FOREIGN KEY (College\_ID, Course\_ID) REFERENCES college\_course(College\_ID, Course\_ID) ON DELETE CASCADE,

FOREIGN KEY (Allocation\_ID) REFERENCES Allocation(Allocation\_ID) ON DELETE CASCADE

);

CREATE TABLE Payment (

transaction\_id INT,

payment\_no INT PRIMARY KEY,

pay\_date DATE

);

CREATE TABLE candidate\_payment (

username INT,

Payment\_No INT,

PRIMARY KEY (username, Payment\_No),

FOREIGN KEY (username) REFERENCES Candidate(username) ON DELETE CASCADE,

FOREIGN KEY (Payment\_No) REFERENCES Payment(Payment\_No) ON DELETE CASCADE

);

CREATE TABLE confirms (

Payment\_No INT,

Allocation\_ID INT,

PRIMARY KEY (Payment\_No, Allocation\_ID),

FOREIGN KEY (Allocation\_ID) REFERENCES Allocation(Allocation\_ID) ON DELETE CASCADE,

FOREIGN KEY (Payment\_No) REFERENCES Payment(Payment\_No) ON DELETE CASCADE

);

CREATE TABLE selected\_from (

Choice\_ID INT,

College\_ID INT,

Course\_ID INT,

PRIMARY KEY (Choice\_ID, College\_ID, Course\_ID),

FOREIGN KEY (College\_ID, Course\_ID) REFERENCES college\_course(College\_ID, Course\_ID) ON DELETE CASCADE,

FOREIGN KEY (Choice\_ID) REFERENCES Preference(Choice\_ID) ON DELETE CASCADE

);

CREATE TABLE determines (

Choice\_ID INT,

Allocation\_ID INT,

PRIMARY KEY (Choice\_ID, Allocation\_ID),

FOREIGN KEY (Choice\_ID) REFERENCES Preference(Choice\_ID) ON DELETE CASCADE,

FOREIGN KEY (Allocation\_ID) REFERENCES Allocation(Allocation\_ID) ON DELETE CASCADE

);

-- Trigger 1

DELIMITER $$

CREATE TRIGGER check\_total\_seats

BEFORE INSERT ON Seat\_Matrix

FOR EACH ROW

BEGIN

-- Calculate total\_seats directly

SET NEW.Total\_Seats = NEW.General + NEW.General\_PwD + NEW.OBC\_NCL + NEW.OBC\_NCL\_PwD +

NEW.SC + NEW.SC\_PwD + NEW.ST + NEW.ST\_PwD;

END$$

DELIMITER ;

-- Trigger 2

DELIMITER $$

CREATE TRIGGER update\_allocated\_seats

BEFORE INSERT ON Allocation

FOR EACH ROW

BEGIN

DECLARE Col\_ID INT;

DECLARE Cho\_ID INT;

DECLARE Cand\_ID INT;

DECLARE Current\_Allocated\_Seats INT;

DECLARE Total\_Seats INT;

-- Get the Col\_ID and Cho\_ID from the Preference table based on the new allocation

SELECT College\_ID, Course\_ID

INTO Col\_ID, Cho\_ID

FROM Preference

WHERE Choice\_ID = NEW.Allocation\_ID;

-- Get the username from Can\_Pref table using the Choice\_ID from Allocation

SELECT username

INTO Cand\_ID

FROM can\_pref

WHERE Choice\_ID = NEW.Allocation\_ID;

-- Get the current allocated seats and total seats for the specific college and course

SELECT Allocated\_Seats, Total\_Seats

INTO Current\_Allocated\_Seats, Total\_Seats

FROM Seat\_Matrix

WHERE College\_ID = Col\_ID AND Course\_ID = Cho\_ID;

-- Check if we can allocate one more seat

IF (Current\_Allocated\_Seats + 1) > Total\_Seats THEN

-- If it exceeds, raise an error and prevent the insert

SIGNAL SQLSTATE '45000' SET MESSAGE\_TEXT = 'Cannot allocate more seats than available';

ELSE

-- Update the Allocated\_Seats in the Seat\_Matrix table

UPDATE Seat\_Matrix

SET Allocated\_Seats = Allocated\_Seats + 1

WHERE College\_ID = Col\_ID AND Course\_ID = Cho\_ID;

-- Insert a new record into Col\_Allo table

INSERT INTO col\_allo (College\_ID, Course\_ID, Allocation\_ID)

VALUES (Col\_ID, Cho\_ID, NEW.Allocation\_ID);

END IF;

END$$

DELIMITER ;

-- Trigger 3

DELIMITER $$

CREATE TRIGGER update\_total\_seats

BEFORE UPDATE ON Seat\_Matrix

FOR EACH ROW

BEGIN

-- Update the Total\_Seats based on the sum of the specified categories

SET New.Total\_Seats = NEW.General + NEW.General\_PwD + NEW.OBC\_NCL + NEW.OBC\_NCL\_PwD +

NEW.SC + NEW.SC\_PwD + NEW.ST + NEW.ST\_PwD;

-- WHERE College\_ID = NEW.College\_ID AND Course\_ID = NEW.Course\_ID;

END$$

DELIMITER ;

-- trigger 4

CREATE TRIGGER trg\_after\_candidate\_payment

AFTER INSERT ON candidate\_payment

FOR EACH ROW

BEGIN

DECLARE v\_alloc\_id INT;

DECLARE v\_college\_id INT;

DECLARE v\_course\_id INT;

/\* 1. Find allocation id for this user \*/

SELECT c.Allocation\_ID

INTO v\_alloc\_id

FROM can\_alloc AS c

WHERE c.username = NEW.username

LIMIT 1; -- protects against >1 row

IF v\_alloc\_id IS NULL THEN

SIGNAL SQLSTATE '45000'

SET MESSAGE\_TEXT = 'No allocation found for this username';

END IF;

/\* 2. Get college + course for that allocation \*/

SELECT p.College\_ID, p.Course\_ID

INTO v\_college\_id, v\_course\_id

FROM Preference AS p

WHERE p.Choice\_ID = v\_alloc\_id

LIMIT 1;

IF v\_college\_id IS NULL OR v\_course\_id IS NULL THEN

SIGNAL SQLSTATE '45000'

SET MESSAGE\_TEXT = 'Preference row missing for allocation id';

END IF;

/\* 3. Ensure Allocation exists / update payment flag \*/

INSERT INTO Allocation (Allocation\_ID, Payment\_Status)

VALUES (v\_alloc\_id, TRUE)

ON DUPLICATE KEY UPDATE Payment\_Status = TRUE;

/\* 4. Link college + course to allocation \*/

INSERT IGNORE INTO col\_allo (College\_ID, Course\_ID, Allocation\_ID)

VALUES (v\_college\_id, v\_course\_id, v\_alloc\_id);

/\* 5. Insert or update confirms \*/

INSERT INTO confirms (Payment\_No, Allocation\_ID)

VALUES (NEW.Payment\_No, v\_alloc\_id)

ON DUPLICATE KEY UPDATE Allocation\_ID = VALUES(Allocation\_ID);

/\* 6. Increment seat count \*/

UPDATE Seat\_Matrix

SET Allocated\_Seats = Allocated\_Seats + 1

WHERE College\_ID = v\_college\_id

AND Course\_ID = v\_course\_id;

END$$

DELIMITER ;

DELIMITER $$

CREATE PROCEDURE AllocateSeats()

BEGIN

DECLARE done INT DEFAULT 0;

DECLARE done\_choice INT DEFAULT 0;

DECLARE can\_id INT;

DECLARE candidate\_rank INT;

DECLARE ch\_id INT;

DECLARE col\_id INT;

DECLARE cou\_id INT;

DECLARE ch\_no INT;

DECLARE is\_allocated INT DEFAULT 0;

-- Candidate cursor

DECLARE candidate\_cursor CURSOR FOR

SELECT c.username, c.Candidate\_Rank

FROM Candidate c

ORDER BY c.Candidate\_Rank;

-- Choice cursor for temporary table

DECLARE choice\_cursor CURSOR FOR

SELECT Choice\_ID, College\_ID, Course\_ID, Choice\_No FROM temp\_choices ORDER BY Choice\_No;

-- Single handler for both loops

DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = 1;

-- Open the candidate cursor to start looping over candidates

OPEN candidate\_cursor;

candidate\_loop: LOOP

FETCH candidate\_cursor INTO can\_id, candidate\_rank;

IF done THEN

LEAVE candidate\_loop;

END IF;

-- Reset flags for the next candidate

SET done = 0;

SET done\_choice = 0;

SET is\_allocated = 0;

-- Step 1: Populate the temp\_choices table with the current candidate's preferences

DROP TEMPORARY TABLE IF EXISTS temp\_choices;

CREATE TEMPORARY TABLE temp\_choices (

Choice\_ID INT,

College\_ID INT,

Course\_ID INT,

Choice\_No INT

);

INSERT INTO temp\_choices (Choice\_ID, College\_ID, Course\_ID, Choice\_No)

SELECT p.Choice\_ID, p.College\_ID, p.Course\_ID, p.Choice\_No

FROM can\_pref cp

INNER JOIN Preference p ON cp.Choice\_ID = p.Choice\_ID

WHERE cp.username = can\_id

ORDER BY p.Choice\_No;

-- Open the choice cursor for the preferences in temp\_choices

OPEN choice\_cursor;

choice\_loop: LOOP

FETCH choice\_cursor INTO ch\_id, col\_id, cou\_id, ch\_no;

IF done THEN

SET done\_choice = 1;

LEAVE choice\_loop;

END IF;

-- Check seat availability and allocate if available

IF EXISTS (SELECT 1 FROM Seat\_Matrix WHERE College\_ID = col\_id AND Course\_ID = cou\_id AND Total\_Seats - Allocated\_Seats > 0)

AND NOT EXISTS (SELECT 1 FROM can\_alloc WHERE username = can\_id AND Allocation\_ID = ch\_id) THEN

INSERT INTO can\_alloc (username, Allocation\_ID) VALUES (can\_id, ch\_id);

UPDATE Seat\_Matrix

SET Allocated\_Seats = Allocated\_Seats + 1

WHERE College\_ID = col\_id AND Course\_ID = cou\_id;

SET is\_allocated = 1;

LEAVE choice\_loop;

END IF;

END LOOP choice\_loop;

-- Close choice cursor and reset done for the next candidate

CLOSE choice\_cursor;

SET done = 0;

END LOOP candidate\_loop;

-- Close candidate cursor

CLOSE candidate\_cursor;

END$$

DELIMITER ;

drop procedure if exists AllocateSeats;

call AllocateSeats();

INSERT INTO College (College\_ID, College\_Name, College\_Type, Location, Contact\_No, Website, Email)

VALUES

(10001, 'Indian Institute of Technology Bombay', 'Public', 'Mumbai', '022-2572-2545', 'http://www.iitb.ac.in', 'admissions@iitb.ac.in'),

(2, 'Indian Institute of Technology Delhi', 'Public', 'New Delhi', '011-2659-7135', 'http://www.iitd.ac.in', 'admissions@iitd.ac.in'),

(3, 'Indian Institute of Technology Kanpur', 'Public', 'Kanpur', '0512-259-0151', 'http://www.iitk.ac.in', 'admissions@iitk.ac.in'),

(4, 'Indian Institute of Technology Kharagpur', 'Public', 'Kharagpur', '03222-255-221', 'http://www.iitkgp.ac.in', 'admissions@iitkgp.ac.in'),

(5, 'Indian Institute of Technology Madras', 'Public', 'Chennai', '044-2257-8101', 'http://www.iitm.ac.in', 'admissions@iitm.ac.in'),

(6, 'Indian Institute of Technology Roorkee', 'Public', 'Roorkee', '01332-285-511', 'http://www.iitr.ac.in', 'admissions@iitr.ac.in'),

(7, 'Indian Institute of Technology Bhubaneswar', 'Public', 'Bhubaneswar', '0674-246-2020', 'http://www.iitbbs.ac.in', 'admissions@iitbbs.ac.in'),

(8, 'Indian Institute of Technology Gandhinagar', 'Public', 'Gandhinagar', '079-2397-0280', 'http://www.iitgn.ac.in', 'admissions@iitgn.ac.in'),

(9, 'Indian Institute of Technology Jammu', 'Public', 'Jammu', '0191-247-6000', 'http://www.iitjammu.ac.in', 'admissions@iitjammu.ac.in'),

(10, 'Indian Institute of Technology Dhanbad', 'Public', 'Dhanbad', '0326-223-5001', 'http://www.iitism.ac.in', 'admissions@iitism.ac.in'),

(11, 'Indian Institute of Technology Bhilai', 'Public', 'Bhilai', '0788-275-0600', 'http://www.iitbhilai.ac.in', 'admissions@iitbhilai.ac.in'),

(12, 'Indian Institute of Technology Patna', 'Public', 'Patna', '0612-302-8400', 'http://www.iitp.ac.in', 'admissions@iitp.ac.in'),

(13, 'Indian Institute of Technology Hyderabad', 'Public', 'Hyderabad', '040-2301-6000', 'http://www.iith.ac.in', 'admissions@iith.ac.in'),

(14, 'Indian Institute of Technology Ropar', 'Public', 'Rupnagar', '01881-242-200', 'http://www.iitrpr.ac.in', 'admissions@iitrpr.ac.in'),

(15, 'Indian Institute of Technology Indore', 'Public', 'Indore', '0731-243-9681', 'http://www.iiti.ac.in', 'admissions@iiti.ac.in'),

(16, 'Indian Institute of Technology Tirupati', 'Public', 'Tirupati', '0877-250-2000', 'http://www.iittp.ac.in', 'admissions@iittp.ac.in'),

(17, 'Indian Institute of Technology Varanasi', 'Public', 'Varanasi', '0542-236-1100', 'http://www.iitbhu.ac.in', 'admissions@iitbhu.ac.in'),

(18, 'Indian Institute of Technology Dharwad', 'Public', 'Dharwad', '0836-221-2500', 'http://www.iitdh.ac.in', 'admissions@iitdh.ac.in'),

(19, 'Indian Institute of Information Technology Allahabad', 'Public', 'Allahabad', '0532-243-7505', 'http://www.iiita.ac.in', 'admissions@iiita.ac.in'),

(20, 'Indian Institute of Information Technology Design and Manufacturing', 'Public', 'Kancheepuram', '044-2747-9001', 'http://www.iiitdm.ac.in', 'admissions@iiitdm.ac.in'),

(21, 'National Institute of Technology Delhi', 'Public', 'New Delhi', '011-2778-2330', 'http://www.nitdelhi.ac.in', 'admissions@nitdelhi.ac.in'),

(22, 'National Institute of Technology Srinagar', 'Public', 'Srinagar', '0194-247-1900', 'http://www.nitsri.net', 'admissions@nitsri.net'),

(23, 'National Institute of Technology Hamirpur', 'Public', 'Hamirpur', '01972-223-167', 'http://www.nith.ac.in', 'admissions@nith.ac.in'),

(24, 'National Institute of Technology Raipur', 'Public', 'Raipur', '0771-247-1254', 'http://www.nitrr.ac.in', 'admissions@nitrr.ac.in'),

(25, 'National Institute of Technology Jamshedpur', 'Public', 'Jamshedpur', '0657-223-0900', 'http://www.nitjsr.ac.in', 'admissions@nitjsr.ac.in'),

(26, 'National Institute of Technology Patna', 'Public', 'Patna', '0612-222-2268', 'http://www.nitp.ac.in', 'admissions@nitp.ac.in'),

(27, 'National Institute of Technology Silchar', 'Public', 'Silchar', '03842-242-206', 'http://www.nits.ac.in', 'admissions@nits.ac.in'),

(28, 'National Institute of Technology Warangal', 'Public', 'Warangal', '0870-245-1000', 'http://www.nitw.ac.in', 'admissions@nitw.ac.in'),

(29, 'Birla Institute of Technology and Science, Pilani', 'Private', 'Pilani', '01596-242-192', 'http://www.bits-pilani.ac.in', 'admissions@bits-pilani.ac.in'),

(30, 'Vellore Institute of Technology', 'Private', 'Vellore', '0416-220-2020', 'http://www.vit.ac.in', 'admissions@vit.ac.in'),

(31, 'Manipal Institute of Technology', 'Private', 'Manipal', '0820-257-1000', 'http://www.manipal.edu', 'admissions@manipal.edu'),

(32, 'Thapar Institute of Engineering and Technology', 'Private', 'Patiala', '0175-239-3021', 'http://www.thapar.edu', 'admissions@thapar.edu'),

(33, 'Shiv Nadar University', 'Private', 'Noida', '0120-717-0100', 'http://www.snu.edu.in', 'admissions@snu.edu.in'),

(34, 'Lovely Professional University', 'Private', 'Phagwara', '01824-404-404', 'http://www.lpu.in', 'admissions@lpu.in'),

(35, 'Chandigarh University', 'Private', 'Gharuan', '1800-102-4422', 'http://www.cuchd.in', 'admissions@cuchd.in'),

(36, 'Nirma University', 'Private', 'Ahmedabad', '02717-241-411', 'http://www.nirmauni.ac.in', 'admissions@nirmauni.ac.in'),

(37, 'Indira Gandhi Delhi Technical University for Women', 'Public', 'Delhi', '011-2390-2203', 'http://www.igdtuw.ac.in', 'admissions@igdtuw.ac.in'),

(38, 'Jaypee Institute of Information Technology', 'Private', 'Noida', '0120-240-0978', 'http://www.jiit.ac.in', 'admissions@jiit.ac.in'),

(39, 'Panjab University', 'Public', 'Chandigarh', '0172-254-1005', 'http://www.puchd.ac.in', 'admissions@puchd.ac.in'),

(40, 'Birla Institute of Technology, Mesra', 'Private', 'Ranchi', '0651-246-2301', 'http://www.bitmesra.ac.in', 'admissions@bitmesra.ac.in'),

(41, 'Hindustan Institute of Technology and Science', 'Private', 'Chennai', '044-2747-1500', 'http://www.hindustanuniv.ac.in', 'admissions@hindustanuniv.ac.in'),

(42, 'Amity University', 'Private', 'Noida', '0120-244-5252', 'http://www.amity.edu', 'admissions@amity.edu'),

(43, 'University of Petroleum and Energy Studies', 'Private', 'Dehradun', '0135-277-0135', 'http://www.upes.ac.in', 'admissions@upes.ac.in'),

(44, 'Sardar Vallabhbhai National Institute of Technology', 'Public', 'Surat', '0261-220-1600', 'http://www.svnit.ac.in', 'admissions@svnit.ac.in'),

(45, 'Institute of Engineering and Technology, Lucknow', 'Public', 'Lucknow', '0522-273-0432', 'http://www.ietlucknow.ac.in', 'admissions@ietlucknow.ac.in'),

(46, 'International Institute of Information Technology Hyderabad', 'Private', 'Hyderabad', '040-6653-1000', 'http://www.iiit.ac.in', 'admissions@iiit.ac.in'),

(47, 'Kalinga Institute of Industrial Technology', 'Private', 'Bhubaneswar', '0674-272-5489', 'http://www.kiit.ac.in', 'admissions@kiit.ac.in'),

(48, 'Sastra University', 'Private', 'Tanjore', '04362-264-800', 'http://www.sastra.edu', 'admissions@sastra.edu'),

(49, 'Bennett University', 'Private', 'Greater Noida', '0120-232-6501', 'http://www.bennett.edu.in', 'admissions@bennett.edu.in'),

(50, 'GITAM University', 'Private', 'Visakhapatnam', '0891-284-0400', 'http://www.gitam.edu', 'admissions@gitam.edu'),

(51, 'University of Delhi', 'Public', 'New Delhi', '011-2766-6640', 'http://www.du.ac.in', 'admissions@du.ac.in'),

(52, 'Jamia Millia Islamia', 'Public', 'New Delhi', '011-2698-2777', 'http://www.jmi.ac.in', 'admissions@jmi.ac.in'),

(53, 'Banaras Hindu University', 'Public', 'Varanasi', '0542-236-8550', 'http://www.bhu.ac.in', 'admissions@bhu.ac.in'),

(54, 'Osmania University', 'Public', 'Hyderabad', '040-2768-2200', 'http://www.osmania.ac.in', 'admissions@osmania.ac.in'),

(55, 'University of Calcutta', 'Public', 'Kolkata', '033-2241-0071', 'http://www.caluniv.ac.in', 'admissions@caluniv.ac.in'),

(56, 'University of Mumbai', 'Public', 'Mumbai', '022-2653-0440', 'http://www.mu.ac.in', 'admissions@mu.ac.in'),

(57, 'Bharathiar University', 'Public', 'Coimbatore', '0422-242-8100', 'http://www.b-u.ac.in', 'admissions@b-u.ac.in'),

(58, 'University of Madras', 'Public', 'Chennai', '044-2539-9422', 'http://www.unom.ac.in', 'admissions@unom.ac.in'),

(59, 'University of Pune', 'Public', 'Pune', '020-2569-2580', 'http://www.unipune.ac.in', 'admissions@unipune.ac.in'),

(60, 'Maharashtra Institute of Technology', 'Private', 'Pune', '020-3027-0400', 'http://www.mitpune.edu.in', 'admissions@mitpune.edu.in'),

(61, 'Dhirubhai Ambani Institute of Information and Communication Technology', 'Private', 'Gandhinagar', '079-3051-1959', 'http://www.daiict.ac.in', 'admissions@daiict.ac.in'),

(62, 'Symbiosis International University', 'Private', 'Pune', '020-3911-1000', 'http://www.siu.edu.in', 'admissions@siu.edu.in'),

(63, 'K J Somaiya College of Engineering', 'Private', 'Mumbai', '022-6722-8000', 'http://www.somaiya.edu', 'admissions@somaiya.edu'),

(64, 'College of Engineering Pune', 'Public', 'Pune', '020-2550-7126', 'http://www.coep.org.in', 'admissions@coep.org.in'),

(65, 'Pune Institute of Computer Technology', 'Private', 'Pune', '020-2765-2222', 'http://www.pict.edu', 'admissions@pict.edu'),

(66, 'MIT College of Engineering', 'Private', 'Pune', '020-2748-6400', 'http://www.mitcoe.edu.in', 'admissions@mitcoe.edu.in'),

(67, 'Shivaji University', 'Public', 'Kolhapur', '0231-260-9071', 'http://www.unishivaji.ac.in', 'admissions@unishivaji.ac.in'),

(68, 'University of Petroleum and Energy Studies', 'Private', 'Dehradun', '0135-277-0135', 'http://www.upes.ac.in', 'admissions@upes.ac.in'),

(69, 'National Institute of Technology, Rourkela', 'Public', 'Rourkela', '0661-246-2000', 'http://www.nitrkl.ac.in', 'admissions@nitrkl.ac.in'),

(70, 'National Institute of Technology, Tiruchirappalli', 'Public', 'Tiruchirappalli', '0431-250-3000', 'http://www.nitt.edu', 'admissions@nitt.edu'),

(71, 'Indian Institute of Technology, Bhubaneswar', 'Public', 'Bhubaneswar', '0674-246-2020', 'http://www.iitbbs.ac.in', 'admissions@iitbbs.ac.in'),

(72, 'Kalinga Institute of Industrial Technology', 'Private', 'Bhubaneswar', '0674-272-5489', 'http://www.kiit.ac.in', 'admissions@kiit.ac.in'),

(73, 'Sardar Vallabhbhai National Institute of Technology', 'Public', 'Surat', '0261-220-1600', 'http://www.svnit.ac.in', 'admissions@svnit.ac.in'),

(74, 'VIT University', 'Private', 'Vellore', '0416-220-2020', 'http://www.vit.ac.in', 'admissions@vit.ac.in'),

(75, 'Shiv Nadar University', 'Private', 'Noida', '0120-717-0100', 'http://www.snu.edu.in', 'admissions@snu.edu.in');

INSERT INTO Candidate (username, Roll\_No, Candidate\_Name, Gender, DOB, Candidate\_Rank, XII\_Percentage, Category, Nationality, Address, Email, Phone)

VALUES

(1, 240001, 'Anil Sharma', 'Male', '2004-05-15', 1, 92, 'General', 'Indian', 'Delhi', 'anil.sharma@email.com', '9876543210'),

(2, 240002, 'Sneha Rao', 'Female', '2005-02-20', 2, 89, 'OBC', 'Indian', 'Mumbai', 'sneha.rao@email.com', '9876543211'),

(3, 240003, 'Rahul Verma', 'Male', '2004-10-10', 3, 85, 'General', 'Indian', 'Bangalore', 'rahul.verma@email.com', '9876543212'),

(4, 240004, 'Priya Singh', 'Female', '2005-03-25', 4, 91, 'SC', 'Indian', 'Kolkata', 'priya.singh@email.com', '9876543213'),

(5, 240005, 'Amit Kumar', 'Male', '2004-08-30', 5, 88, 'ST', 'Indian', 'Hyderabad', 'amit.kumar@email.com', '9876543214'),

(6, 240006, 'Riya Mehta', 'Female', '2005-11-05', 6, 90, 'General', 'Indian', 'Ahmedabad', 'riya.mehta@email.com', '9876543215'),

(7, 240007, 'Vikram Gupta', 'Male', '2004-06-18', 7, 84, 'OBC', 'Indian', 'Pune', 'vikram.gupta@email.com', '9876543216'),

(8, 240008, 'Neha Bansal', 'Female', '2005-04-22', 8, 86, 'General', 'Indian', 'Chennai', 'neha.bansal@email.com', '9876543217'),

(9, 240009, 'Suresh Iyer', 'Male', '2004-01-12', 9, 83, 'SC', 'Indian', 'Lucknow', 'suresh.iyer@email.com', '9876543218'),

(10, 240010, 'Pooja Joshi', 'Female', '2005-12-30', 10, 87, 'ST', 'Indian', 'Jaipur', 'pooja.joshi@email.com', '9876543219'),

(11, 240011, 'Karan Nair', 'Male', '2004-09-03', 11, 90, 'General', 'Indian', 'Thiruvananthapuram', 'karan.nair@email.com', '9876543220'),

(12, 240012, 'Simran Kaur', 'Female', '2005-07-14', 12, 92, 'OBC', 'Indian', 'Chandigarh', 'simran.kaur@email.com', '9876543221'),

(13, 240013, 'Ravi Reddy', 'Male', '2004-10-20', 13, 89, 'General', 'Indian', 'Visakhapatnam', 'ravi.reddy@email.com', '9876543222'),

(14, 240014, 'Divya Patil', 'Female', '2005-01-15', 14, 94, 'SC', 'Indian', 'Nagpur', 'divya.patil@email.com', '9876543223'),

(15, 240015, 'Mohit Sharma', 'Male', '2004-12-08', 15, 86, 'ST', 'Indian', 'Bhopal', 'mohit.sharma@email.com', '9876543224'),

(16, 240016, 'Aisha Khan', 'Female', '2005-03-02', 16, 91, 'General', 'Indian', 'Ahmedabad', 'aisha.khan@email.com', '9876543225'),

(17, 240017, 'Nikhil Sharma', 'Male', '2004-05-30', 17, 82, 'OBC', 'Indian', 'Indore', 'nikhil.sharma@email.com', '9876543226'),

(18 , 240018, 'Geeta Devi', 'Female', '2005-11-22', 18, 88, 'General', 'Indian', 'Ranchi', 'geeta.devi@email.com', '9876543227'),

(19, 240019, 'Ajay Rathi', 'Male', '2004-08-05', 19, 85, 'SC', 'Indian', 'Faridabad', 'ajay.rathi@email.com', '9876543228'),

(20, 240020, 'Kavita Rani', 'Female', '2005-02-09', 20, 90, 'ST', 'Indian', 'Patna', 'kavita.rani@email.com', '9876543229'),

(21, 240021, 'Vikas Singh', 'Male', '2004-06-27', 21, 83, 'General', 'Indian', 'Ghaziabad', 'vikas.singh@email.com', '9876543230'),

(22, 240022, 'Swati Agarwal', 'Female', '2005-09-11', 22, 92, 'OBC', 'Indian', 'Noida', 'swati.agarwal@email.com', '9876543231'),

(23, 240023, 'Manoj Kumar', 'Male', '2004-04-15', 23, 87, 'General', 'Indian', 'Surat', 'manoj.kumar@email.com', '9876543232'),

(24, 240024, 'Rekha Saini', 'Female', '2005-10-20', 24, 90, 'SC', 'Indian', 'Jodhpur', 'rekha.saini@email.com', '9876543233'),

(25, 240025, 'Siddharth Singh', 'Male', '2004-11-05', 25, 89, 'ST', 'Indian', 'Ahmedabad', 'siddharth.singh@email.com', '9876543234'),

(26, 240026, 'Alok Yadav', 'Male', '2005-12-10', 26, 91, 'General', 'Indian', 'Lucknow', 'alok.yadav@email.com', '9876543235'),

(27, 240027, 'Tanvi Bhatia', 'Female', '2004-07-01', 27, 88, 'OBC', 'Indian', 'Nashik', 'tanvi.bhatia@email.com', '9876543236'),

(28, 240028, 'Ritesh Thakur', 'Male', '2005-05-14', 28, 86, 'General', 'Indian', 'Bhopal', 'ritesh.thakur@email.com', '9876543237'),

(29, 240029, 'Anushka Sharma', 'Female', '2004-09-22', 29, 90, 'SC', 'Indian', 'Dehradun', 'anushka.sharma@email.com', '9876543238'),

(30, 240030, 'Vinay Yadav', 'Male', '2005-04-05', 30, 89, 'ST', 'Indian', 'Jaipur', 'vinay.yadav@email.com', '9876543239'),

(31, 240031, 'Snehal Sinha', 'Female', '2004-02-17', 31, 92, 'General', 'Indian', 'Raipur', 'snehal.sinha@email.com', '9876543240'),

(32, 240032, 'Niraj Jha', 'Male', '2005-10-18', 32, 91, 'OBC', 'Indian', 'Patna', 'niraj.jha@email.com', '9876543241'),

(33, 240033, 'Aditi Gupta', 'Female', '2004-06-09', 33, 94, 'SC', 'Indian', 'Panchkula', 'aditi.gupta@email.com', '9876543242'),

(34, 240034, 'Tarun Kumar', 'Male', '2005-11-27', 34, 87, 'ST', 'Indian', 'Faridabad', 'tarun.kumar@email.com', '9876543243'),

(35, 240035, 'Neelam Rani', 'Female', '2004-08-02', 35, 88, 'General', 'Indian', 'Bhopal', 'neelam.rani@email.com', '9876543244'),

(36, 240036, 'Sanjay Patel', 'Male', '2005-01-24', 36, 91, 'OBC', 'Indian', 'Vadodara', 'sanjay.patel@email.com', '9876543245'),

(37, 240037, 'Asha Kumari', 'Female', '2004-05-05', 37, 93, 'SC', 'Indian', 'Chennai', 'asha.kumari@email.com', '9876543246'),

(38, 240038, 'Sandeep Rawat', 'Male', '2005-02-21', 38, 85, 'ST', 'Indian', 'Shimla', 'sandeep.rawat@email.com', '9876543247'),

(39, 240039, 'Shalini Mehra', 'Female', '2004-07-19', 39, 91, 'General', 'Indian', 'Chandigarh', 'shalini.mehra@email.com', '9876543248'),

(40, 240040, 'Amit Mishra', 'Male', '2005-12-25', 40, 90, 'OBC', 'Indian', 'Indore', 'amit.mishra@email.com', '9876543249'),

(41, 240041, 'Vinod Kumar', 'Male', '2004-06-16', 41, 87, 'SC', 'Indian', 'Bhubaneswar', 'vinod.kumar@email.com', '9876543250'),

(42, 240042, 'Sujata Patel', 'Female', '2005-03-03', 42, 89, 'ST', 'Indian', 'Nagpur', 'sujata.patel@email.com', '9876543251'),

(43, 240043, 'Rakesh Yadav', 'Male', '2004-10-05', 43, 92, 'General', 'Indian', 'Kanpur', 'rakesh.yadav@email.com', '9876543252'),

(44, 240044, 'Lata Verma', 'Female', '2005-06-19', 44, 94, 'OBC', 'Indian', 'Mysore', 'lata.verma@email.com', '9876543253'),

(45, 240045, 'Ravi Ranjan', 'Male', '2004-03-12', 45, 86, 'SC', 'Indian', 'Ranchi', 'ravi.ranjan@email.com', '9876543254'),

(46, 240046, 'Sweta Kumari', 'Female', '2005-08-10', 46, 88, 'ST', 'Indian', 'Gorakhpur', 'sweta.kumari@email.com', '9876543255'),

(47, 240047, 'Mohammad Ali', 'Male', '2004-04-18', 47, 91, 'General', 'Indian', 'Patna', 'mohammad.ali@email.com', '9876543256'),

(48, 240048, 'Divya Bansal', 'Female', '2005-09-04', 48, 93, 'OBC', 'Indian', 'Delhi', 'divya.bansal@email.com', '9876543257'),

(49, 240049, 'Pankaj Mehra', 'Male', '2004-02-03', 49, 90, 'SC', 'Indian', 'Gurgaon', 'pankaj.mehra@email.com', '9876543258'),

(50, 240050, 'Rekha Rani', 'Female', '2005-11-17', 50, 91, 'ST', 'Indian', 'Udaipur', 'rekha.rani@email.com', '9876543259'),

(51, 240051, 'Neelam Yadav', 'Female', '2005-03-15', 51, 92, 'General', 'Indian', 'Meerut', 'neelam.yadav@email.com', '9876543260'),

(52, 240052, 'Anup Singh', 'Male', '2004-11-25', 52, 89, 'OBC', 'Indian', 'Amritsar', 'anup.singh@email.com', '9876543261'),

(53, 240053, 'Kiran Kumari', 'Female', '2005-07-08', 53, 85, 'General', 'Indian', 'Raigarh', 'kiran.kumari@email.com', '9876543262'),

(54, 240054, 'Rajesh Rathi', 'Male', '2004-10-30', 54, 91, 'SC', 'Indian', 'Nagpur', 'rajesh.rathi@email.com', '9876543263'),

(55, 240055, 'Ravi Singh', 'Male', '2005-01-05', 55, 87, 'ST', 'Indian', 'Gwalior', 'ravi.singh@email.com', '9876543264'),

(56, 240056, 'Priya Mehta', 'Female', '2004-06-29', 56, 90, 'General', 'Indian', 'Varanasi', 'priya.mehta@email.com', '9876543265'),

(57, 240057, 'Vikash Kumar', 'Male', '2005-04-10', 57, 92, 'OBC', 'Indian', 'Rajkot', 'vikash.kumar@email.com', '9876543266'),

(58, 240058, 'Aarushi Kapoor', 'Female', '2004-09-17', 58, 86, 'General', 'Indian', 'Ranchi', 'aarushi.kapoor@email.com', '9876543267'),

(59, 240059, 'Suman Devi', 'Female', '2005-02-02', 59, 94, 'SC', 'Indian', 'Shimla', 'suman.devi@email.com', '9876543268'),

(60, 240060, 'Nitin Soni', 'Male', '2004-11-11', 60, 88, 'ST', 'Indian', 'Jaipur', 'nitin.soni@email.com', '9876543269'),

(61, 240061, 'Sumit Kumar', 'Male', '2005-05-21', 61, 91, 'General', 'Indian', 'Chandigarh', 'sumit.kumar@email.com', '9876543270'),

(62, 240062, 'Deepika Sharma', 'Female', '2004-01-27', 62, 93, 'OBC', 'Indian', 'Dehradun', 'deepika.sharma@email.com', '9876543271'),

(63, 240063, 'Raghav Sharma', 'Male', '2005-06-05', 63, 85, 'General', 'Indian', 'Jammu', 'raghav.sharma@email.com', '9876543272'),

(64, 240064, 'Anjali Mehra', 'Female', '2004-03-09', 64, 90, 'SC', 'Indian', 'Chennai', 'anjali.mehra@email.com', '9876543273'),

(65, 240065, 'Arvind Kumar', 'Male', '2005-12-15', 65, 87, 'ST', 'Indian', 'Lucknow', 'arvind.kumar@email.com', '9876543274'),

(66, 240066, 'Manju Yadav', 'Female', '2004-04-22', 66, 91, 'General', 'Indian', 'Faridabad', 'manju.yadav@email.com', '9876543275'),

(67, 240067, 'Alok Kumar', 'Male', '2005-10-30', 67, 92, 'OBC', 'Indian', 'Patiala', 'alok.kumar@email.com', '9876543276'),

(68, 240068, 'Tanuja Patil', 'Female', '2004-07-11', 68, 89, 'General', 'Indian', 'Delhi', 'tanuja.patil@email.com', '9876543277'),

(69, 240069, 'Vishal Saini', 'Male', '2005-08-20', 69, 88, 'SC', 'Indian', 'Chandigarh', 'vishal.saini@email.com', '9876543278'),

(70, 240070, 'Shivani Agarwal', 'Female', '2004-02-10', 70, 90, 'ST', 'Indian', 'Jammu', 'shivani.agarwal@email.com', '9876543279'),

(71, 240071, 'Kishore Kumar', 'Male', '2005-03-05', 71, 91, 'General', 'Indian', 'Bhopal', 'kishore.kumar@email.com', '9876543280'),

(72, 240072, 'Rita Devi', ' Female', '2004-12-01', 72, 89, 'OBC', 'Indian', 'Pune', 'rita.devi@email.com', '9876543281'),

(73, 240073, 'Manoj Yadav', 'Male', '2005-01-20', 73, 85, 'General', 'Indian', 'Hyderabad', 'manoj.yadav@email.com', '9876543282'),

(74, 240074, 'Ankita Rawat', 'Female', '2004-06-03', 74, 93, 'SC', 'Indian', 'Indore', 'ankita.rawat@email.com', '9876543283'),

(75, 240075, 'Nikhil Soni', 'Male', '2005-07-24', 75, 87, 'ST', 'Indian', 'Vishakhapatnam', 'nikhil.soni@email.com', '9876543284'),

(76, 240076, 'Tariq Ali', 'Male', '2004-08-18', 76, 90, 'General', 'Indian', 'Allahabad', 'tariq.ali@email.com', '9876543285'),

(77, 240077, 'Preeti Singh', 'Female', '2005-12-06', 77, 94, 'OBC', 'Indian', 'Noida', 'preeti.singh@email.com', '9876543286'),

(78, 240078, 'Vishal Gupta', 'Male', '2004-11-04', 78, 89, 'SC', 'Indian', 'Bhopal', 'vishal.gupta@email.com', '9876543287'),

(79, 240079, 'Pooja Yadav', 'Female', '2005-10-30', 79, 91, 'ST', 'Indian', 'Varanasi', 'pooja.yadav@email.com', '9876543288'),

(80, 240080, 'Amit Rathi', 'Male', '2004-05-19', 80, 92, 'General', 'Indian', 'Mysore', 'amit.rathi@email.com', '9876543289'),

(81, 240081, 'Komal Sharma', 'Female', '2005-03-03', 81, 88, 'OBC', 'Indian', 'Kolkata', 'komal.sharma@email.com', '9876543290'),

(82, 240082, 'Karan Singh', 'Male', '2004-08-13', 82, 86, 'General', 'Indian', 'Gurgaon', 'karan.singh@email.com', '9876543291'),

(83, 240083, 'Asha Kumari', 'Female', '2005-01-01', 83, 90, 'SC', 'Indian', 'Agra', 'asha.kumari@email.com', '9876543292'),

(84, 240084, 'Arvind Singh', 'Male', '2004-12-14', 84, 89, 'ST', 'Indian', 'Kolkata', 'arvind.singh@email.com', '9876543293'),

(85, 240085, 'Priya Joshi', 'Female', '2005-06-23', 85, 91, 'General', 'Indian', 'Bhubaneswar', 'priya.joshi@email.com', '9876543294'),

(86, 240086, 'Vikash Rathi', 'Male', '2004-04-28', 86, 90, 'OBC', 'Indian', 'Vadodara', 'vikash.rathi@email.com', '9876543295'),

(87, 240087, 'Rina Mehta', 'Female', '2005-09-05', 87, 92, 'SC', 'Indian', 'Raipur', 'rina.mehta@email.com', '9876543296'),

(88, 240088, 'Sanjay Singh', 'Male', '2004-07-01', 88, 88, 'ST', 'Indian', 'Nagpur', 'sanjay.singh@email.com', '9876543297'),

(89, 240089, 'Nisha Yadav', 'Female', '2005-03-12', 89, 89, 'General', 'Indian', 'Surat', 'nisha.yadav@email.com', '9876543298'),

(90, 240090, 'Tarun Kumar', 'Male', '2004-06-11', 90, 91, 'OBC', 'Indian', 'Indore', 'tarun.kumar@email.com', '9876543299'),

(91, 240091, 'Suman Kumari', 'Female', '2005-04-25', 91, 85, 'SC', 'Indian', 'Lucknow', 'suman.kumari@email.com', '9876543300'),

(92, 240092, 'Ravi Kumar', 'Male', '2004-10-10', 92, 92, 'ST', 'Indian', 'Delhi', 'ravi.kumar@email.com', '9876543301'),

(93, 240093, 'Meenal Patel', 'Female', '2005-01-02', 93, 90, 'General', 'Indian', 'Ahmedabad', 'meenal.patel@email.com', '9876543302'),

(94, 240094, 'Manoj Rawat', 'Male', '2004-09-18', 94, 93, 'OBC', 'Indian', 'Chandigarh', 'manoj.rawat@email.com', '9876543303'),

(95, 240095, 'Tanu Sharma', 'Female', '2005-12-04', 95, 87, 'SC', 'Indian', 'Bangalore', 'tanu.sharma@email.com', '9876543304'),

(96, 240096, 'Alok Yadav', 'Male', '2004-02-28', 96, 91, 'ST', 'Indian', 'Mumbai', 'alok.yadav@email.com', '9876543305'),

(97, 240097, 'Sonal Kumari', 'Female', '2005-05-15', 97, 94, 'General', 'Indian', 'Patna', 'sonal.kumari@email.com', '9876543306'),

(98, 240098, 'Pankaj Soni', 'Male', '2004-07-30', 98, 85, 'OBC', 'Indian', 'Gurgaon', 'pankaj.soni@email.com', '9876543307'),

(99, 240099, 'Seema Kumari', 'Female', '2005-03-10', 99, 90, 'SC', 'Indian', 'Dehradun', 'seema.kumari@email.com', '9876543308'),

(100, 240100, 'Anil Singh', 'Male', '2004-11-18', 100, 91, 'ST', 'Indian', 'Udaipur', 'anil.singh@email.com', '9876543309');

INSERT INTO Course (Course\_ID, Branch\_Name, Program\_Name)

VALUES

(1, 'Computer Science', 'B.Tech'),

(2, 'Information Technology', 'B.Tech'),

(3, 'Electronics and Communication', 'B.Tech'),

(4, 'Electrical Engineering', 'B.Tech'),

(5, 'Mechanical Engineering', 'B.Tech'),

(6, 'Civil Engineering', 'B.Tech'),

(7, 'Chemical Engineering', 'B.Tech'),

(8, 'Biotechnology', 'B.Tech'),

(9, 'Aerospace Engineering', 'B.Tech'),

(10, 'Architecture', 'B.Arch'),

(11, 'Data Science', 'M.Tech'),

(12, 'Artificial Intelligence', 'M.Tech'),

(13, 'Cybersecurity', 'M.Tech'),

(14, 'Embedded Systems', 'M.Tech'),

(15, 'Software Engineering', 'M.Tech'),

(16, 'Information Systems', 'M.Tech'),

(17, 'Renewable Energy', 'M.Tech'),

(18, 'Structural Engineering', 'M.Tech'),

(19, 'VLSI Design', 'M.Tech'),

(20, 'Mechanical Design', 'M.Tech'),

(21, 'Mathematics and Computing', 'B.Tech'),

(22, 'Space Sciences', 'M.Tech');

INSERT into college\_course(College\_ID, Course\_ID)

VALUE

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(74, 1), (74, 2), (74, 3), (74, 4), (74, 5),

(75, 1), (75, 2), (75, 3), (75, 4), (75, 5);

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(64, 1, 4, 1, 2, 0, 1, 1, 1, 1, 10),

(64, 2, 3, 1, 2, 0, 1, 1, 1, 0, 9),

(64, 3, 4, 1, 3, 0, 2, 1, 1, 1, 11),

(64, 4, 2, 1, 1, 1, 1, 0, 1, 1, 6),

(64, 5, 2, 1, 1, 1, 0, 0, 1, 1, 6),

(65, 1, 4, 1, 2, 0, 1, 1, 1, 1, 10),

(65, 2, 3, 1, 2, 0, 1, 1, 1, 0, 9),

(65, 3, 4, 1, 3, 0, 2, 1, 1, 1, 11),

(65, 4, 2, 1, 1, 1, 1, 0, 1, 1, 6),

(65, 5, 2, 1, 1, 1, 0, 0, 1, 1, 6),

(66, 1, 4, 1, 2, 0, 1, 1, 1, 1, 10),

(66, 2, 3, 1, 2, 0, 1, 1, 1, 0, 9),

(66, 3, 4, 1, 3, 0, 2, 1, 1, 1, 11),

(66, 4, 2, 1, 1, 1, 1, 0, 1, 1, 6),

(66, 5, 2, 1, 1, 1, 0, 0, 1, 1, 6),

(67, 1, 4, 1, 2, 0, 1, 1, 1, 1, 10),

(67, 2, 3, 1, 2, 0, 1, 1, 1, 0, 9),

(67, 3, 4, 1, 3, 0, 2, 1, 1, 1, 11),

(67, 4, 2, 1, 1, 1, 1, 0, 1, 1, 6),

(67, 5, 2, 1, 1, 1, 0, 0, 1, 1, 6),

(68, 1, 4, 1, 2, 0, 1, 1, 1, 1, 10),

(68, 2, 3, 1, 2, 0, 1, 1, 1, 0, 9),

(68, 3, 4, 1, 3, 0, 2, 1, 1, 1, 11),

(68, 4, 2, 1, 1, 1, 1, 0, 1, 1, 6),

(68, 5, 2, 1, 1, 1, 0, 0, 1, 1, 6),

(69, 1, 4, 1, 2, 0, 1, 1, 1, 1, 10),

(69, 2, 3, 1, 2, 0, 1, 1, 1, 0, 9),

(69, 3, 4, 1, 3, 0, 2, 1, 1, 1, 11),

(69, 4, 2, 1, 1, 1, 1, 0, 1, 1, 6),

(69, 5, 2, 1, 1, 1, 0, 0, 1, 1, 6),

(70, 1, 4, 1, 2, 0, 1, 1, 1, 1, 10),

(70, 2, 3, 1, 2, 0, 1, 1, 1, 0, 9),

(70, 3, 4, 1, 3, 0, 2, 1, 1, 1, 11),

(70, 4, 2, 1, 1, 1, 1, 0, 1, 1, 6),

(70, 5, 2, 1, 1, 1, 0, 0, 1, 1, 6),

(71, 1, 4, 1, 2, 0, 1, 1, 1, 1, 10),

(71, 2, 3, 1, 2, 0, 1, 1, 1, 0, 9),

(71, 3, 4, 1, 3, 0, 2, 1, 1, 1, 11),

(71, 4, 2, 1, 1, 1, 1, 0, 1, 1, 6),

(71, 5, 2, 1, 1, 1, 0, 0, 1, 1, 6),

(72, 1, 4, 1, 2, 0, 1, 1, 1, 1, 10),

(72, 2, 3, 1, 2, 0, 1, 1, 1, 0, 9),

(72, 3, 4, 1, 3, 0, 2, 1, 1, 1, 11),

(72, 4, 2, 1, 1, 1, 1, 0, 1, 1, 6),

(72, 5, 2, 1, 1, 1, 0, 0, 1, 1, 6),

(73, 1, 4, 1, 2, 0, 1, 1, 1, 1, 10),

(73, 2, 3, 1, 2, 0, 1, 1, 1, 0, 9),

(73, 3, 4, 1, 3, 0, 2, 1, 1, 1, 11),

(73, 4, 2, 1, 1, 1, 1, 0, 1, 1, 6),

(73, 5, 2, 1, 1, 1, 0, 0, 1, 1, 6),

(74, 1, 4, 1, 2, 0, 1, 1, 1, 1, 10),

(74, 2, 3, 1, 2, 0, 1, 1, 1, 0, 9),

(74, 3, 4, 1, 3, 0, 2, 1, 1, 1, 11),

(74, 4, 2, 1, 1, 1, 1, 0, 1, 1, 6),

(74, 5, 2, 1, 1, 1, 0, 0, 1, 1, 6),

(75, 1, 4, 1, 2, 0, 1, 1, 1, 1, 10),

(75, 2, 3, 1, 2, 0, 1, 1, 1, 0, 9),

(75, 3, 4, 1, 3, 0, 2, 1, 1, 1, 11),

(75, 4, 2, 1, 1, 1, 1, 0, 1, 1, 6),

(75, 5, 2, 1, 1, 1, 0, 0, 1, 1, 6);

INSERT INTO Preference (Choice\_ID, Choice\_No, College\_ID, Course\_ID)

VALUES

(1, 1, 10001, 1), (2, 2, 10001, 2), (3, 3, 10001, 3), (4, 4, 10001, 4), (5, 5, 10001, 5),

(6, 1, 2, 1), (7, 2, 2, 2), (8, 3, 2, 3), (9, 4, 2, 4), (10, 5, 2, 5),

(11, 1, 3, 1), (12, 2, 3, 2), (13, 3, 3, 3), (14, 4, 3, 4), (15, 5, 3, 5),

(16, 1, 4, 1), (17, 2, 4, 2), (18, 3, 4, 3), (19, 4, 4, 4), (20, 5, 4, 5),

(21, 1, 5, 1), (22, 2, 5, 2), (23, 3, 5, 3), (24, 4, 5, 4), (25, 5, 5, 5),

(26, 1, 6, 1), (27, 2, 6, 2), (28, 3, 6, 3), (29, 4, 6, 4), (30, 5, 6, 5),

(31, 1, 7, 1), (32, 2, 7, 2), (33, 3, 7, 3), (34, 4, 7, 4), (35, 5, 7, 5),

(36, 1, 8, 1), (37, 2, 8, 2), (38, 3, 8, 3), (39, 4, 8, 4), (40, 5, 8, 5),

(41, 1, 9, 1), (42, 2, 9, 2), (43, 3, 9, 3), (44, 4, 9, 4), (45, 5, 9, 5),

(46, 1, 10, 1), (47, 2, 10, 2), (48, 3, 10, 3), (49, 4, 10, 4), (50, 5, 10, 5),

(51, 1, 11, 1), (52, 2, 11, 2), (53, 3, 11, 3), (54, 4, 11, 4), (55, 5, 11, 5),

(56, 1, 12, 1), (57, 2, 12, 2), (58, 3, 12, 3), (59, 4, 12, 4), (60, 5, 12, 5),

(61, 1, 13, 1), (62, 2, 13, 2), (63, 3, 13, 3), (64, 4, 13, 4), (65, 5, 13, 5),

(66, 1, 14, 1), (67, 2, 14, 2), (68, 3, 14, 3), (69, 4, 14, 4), (70, 5, 14, 5),

(71, 1, 15, 1), (72, 2, 15, 2), (73, 3, 15, 3), (74, 4, 15, 4), (75, 5, 15, 5),

(76, 1, 16, 1), (77, 2, 16, 2), (78, 3, 16, 3), (79, 4, 16, 4), (80, 5, 16, 5),

(81, 1, 17, 1), (82, 2, 17, 2), (83, 3, 17, 3), (84, 4, 17, 4), (85, 5, 17, 5),

(86, 1, 18, 1), (87, 2, 18, 2), (88, 3, 18, 3), (89, 4, 18, 4), (90, 5, 18, 5),

(91, 1, 19, 1), (92, 2, 19, 2), (93, 3, 19, 3), (94, 4, 19, 4), (95, 5, 19, 5),

(96, 1, 20, 1), (97, 2, 20, 2), (98, 3, 20, 3), (99, 4, 20, 4), (100, 5, 20, 5),

(101, 1, 21, 1), (102, 2, 21, 2), (103, 3, 21, 3), (104, 4, 21, 4), (105, 5, 21, 5),

(106, 1, 22, 1), (107, 2, 22, 2), (108, 3, 22, 3), (109, 4, 22, 4), (110, 5, 22, 5),

(111, 1, 23, 1), (112, 2, 23, 2), (113, 3, 23, 3), (114, 4, 23, 4), (115, 5, 23, 5),

(116, 1, 24, 1), (117, 2, 24, 2), (118, 3, 24, 3), (119, 4, 24, 4), (120, 5, 24, 5),

(121, 1, 25, 1), (122, 2, 25, 2), (123, 3, 25, 3), (124, 4, 25, 4), (125, 5, 25, 5),

(126, 1, 26, 1), (127, 2, 26, 2), (128, 3, 26, 3), (129, 4, 26, 4), (130, 5, 26, 5),

(131, 1, 27, 1), (132, 2, 27, 2), (133, 3, 27, 3), (134, 4, 27, 4), (135, 5, 27, 5),

(136, 1, 28, 1), (137, 2, 28, 2), (138, 3, 28, 3), (139, 4, 28, 4), (140, 5, 28, 5),

(141, 1, 29, 1), (142, 2, 29, 2), (143, 3, 29, 3), (144, 4, 29, 4), (145, 5, 29, 5),

(146, 1, 30, 1), (147, 2, 30, 2), (148, 3, 30, 3), (149, 4, 30, 4), (150, 5, 30, 5),

(151, 1, 31, 1), (152, 2, 31, 2), (153, 3, 31, 3), (154, 4, 31, 4), (155, 5, 31, 5),

(156, 1, 32, 1), (157, 2, 32, 2), (158, 3, 32, 3), (159, 4, 32, 4), (160, 5, 32, 5),

(161, 1, 33, 1), (162, 2, 33, 2), (163, 3, 33, 3), (164, 4, 33, 4), (165, 5, 33, 5),

(166, 1, 34, 1), (167, 2, 34, 2), (168, 3, 34, 3), (169, 4, 34, 4), (170, 5, 34, 5),

(171, 1, 35, 1), (172, 2, 35, 2), (173, 3, 35, 3), (174, 4, 35, 4), (175, 5, 35, 5),

(176, 1, 36, 1), (177, 2, 36, 2), (178, 3, 36, 3), (179, 4, 36, 4), (180, 5, 36, 5),

(181, 1, 37, 1), (182, 2, 37, 2), (183, 3, 37, 3), (184, 4, 37, 4), (185, 5, 37, 5),

(186, 1, 38, 1), (187, 2, 38, 2), (188, 3, 38, 3), (189, 4, 38, 4), (190, 5, 38, 5),

(191, 1, 39, 1), (192, 2, 39, 2), (193, 3, 39, 3), (194, 4, 39, 4), (195, 5, 39, 5),

(196, 1, 40, 1), (197, 2, 40, 2), (198, 3, 40, 3), (199, 4, 40, 4), (200, 5, 40, 5),

(201, 1, 41, 1), (202, 2, 41, 2), (203, 3, 41, 3), (204, 4, 41, 4), (205, 5, 41, 5),

(206, 1, 42, 1), (207, 2, 42, 2), (208, 3, 42, 3), (209, 4, 42, 4), (210, 5, 42, 5),

(211, 1, 43, 1), (212, 2, 43, 2), (213, 3, 43, 3), (214, 4, 43, 4), (215, 5, 43, 5),

(216, 1, 44, 1), (217, 2, 44, 2), (218, 3, 44, 3), (219, 4, 44, 4), (220, 5, 44, 5),

(221, 1, 45, 1), (222, 2, 45, 2), (223, 3, 45, 3), (224, 4, 45, 4), (225, 5, 45, 5),

(226, 1, 46, 1), (227, 2, 46, 2), (228, 3, 46, 3), (229, 4, 46, 4), (230, 5, 46, 5),

(231, 1, 47, 1), (232, 2, 47, 2), (233, 3, 47, 3), (234, 4, 47, 4), (235, 5, 47, 5),

(236, 1, 48, 1), (237, 2, 48, 2), (238, 3, 48, 3), (239, 4, 48, 4), (240, 5, 48, 5),

(241, 1, 49, 1), (242, 2, 49, 2), (243, 3, 49, 3), (244, 4, 49, 4), (245, 5, 49, 5),

(246, 1, 50, 1), (247, 2, 50, 2), (248, 3, 50, 3), (249, 4, 50, 4), (250, 5, 50, 5);

INSERT INTO can\_pref (username, Choice\_ID)

VALUES

(1, 1), (1, 2), (1, 3), (1, 4), (1, 5),

(2, 6), (2, 7), (2, 8), (2, 9), (2, 10),

(3, 11), (3, 12), (3, 13), (3, 14), (3, 15),

(4, 16), (4, 17), (4, 18), (4, 19), (4, 20),

(5, 21), (5, 22), (5, 23), (5, 24), (5, 25),

(6, 26), (6, 27), (6, 28), (6, 29), (6, 30),

(7, 31), (7, 32), (7, 33), (7, 34), (7, 35),

(8, 36), (8, 37), (8, 38), (8, 39), (8, 40),

(9, 41), (9, 42), (9, 43), (9, 44), (9, 45),

(10, 46), (10, 47), (10, 48), (10, 49), (10, 50),

(11, 51), (11, 52), (11, 53), (11, 54), (11, 55),

(12, 56), (12, 57), (12, 58), (12, 59), (12, 60),

(13, 61), (13, 62), (13, 63), (13, 64), (13, 65),

(14, 66), (14, 67), (14, 68), (14, 69), (14, 70),

(15, 71), (15, 72), (15, 73), (15, 74), (15, 75),

(16, 76), (16, 77), (16, 78), (16, 79), (16, 80),

(17, 81), (17, 82), (17, 83), (17, 84), (17, 85),

(18, 86), (18, 87), (18, 88), (18, 89), (18, 90),

(19, 91), (19, 92), (19, 93), (19, 94), (19, 95),

(20, 96), (20, 97), (20, 98), (20, 99), (20, 100),

(21, 101), (21, 102), (21, 103), (21, 104), (21, 105),

(22, 106), (22, 107), (22, 108), (22, 109), (22, 110),

(23, 111), (23, 112), (23, 113), (23, 114), (23, 115),

(24, 116), (24, 117), (24, 118), (24, 119), (24, 120),

(25, 121), (25, 122), (25, 123), (25, 124), (25, 125),

(26, 126), (26, 127), (26, 128), (26, 129), (26, 130),

(27, 131), (27, 132), (27, 133), (27, 134), (27, 135),

(28, 136), (28, 137), (28, 138), (28, 139), (28, 140),

(29, 141), (29, 142), (29, 143), (29, 144), (29, 145),

(30, 146), (30, 147), (30, 148), (30, 149), (30, 150),

(31, 151), (31, 152), (31, 153), (31, 154), (31, 155),

(32, 156), (32, 157), (32, 158), (32, 159), (32, 160),

(33, 161), (33, 162), (33, 163), (33, 164), (33, 165),

(34, 166), (34, 167), (34, 168), (34, 169), (34, 170),

(35, 171), (35, 172), (35, 173), (35, 174), (35, 175),

(36, 176), (36, 177), (36, 178), (36, 179), (36, 180),

(37, 181), (37, 182), (37, 183), (37, 184), (37, 185),

(38, 186), (38, 187), (38, 188), (38, 189), (38, 190),

(39, 191), (39, 192), (39, 193), (39, 194), (39, 195),

(40, 196), (40, 197), (40, 198), (40, 199), (40, 200),

(41, 201), (41, 202), (41, 203), (41, 204), (41, 205),

(42, 206), (42, 207), (42, 208), (42, 209), (42, 210),

(43, 211), (43, 212), (43, 213), (43, 214), (43, 215),

(44, 216), (44, 217), (44, 218), (44, 219), (44, 220),

(45, 221), (45, 222), (45, 223), (45, 224), (45, 225),

(46, 226), (46, 227), (46, 228), (46, 229), (46, 230),

(47, 231), (47, 232), (47, 233), (47, 234), (47, 235),

(48, 236), (48, 237), (48, 238), (48, 239), (48, 240),

(49, 241), (49, 242), (49, 243), (49, 244), (49, 245),

(50, 246), (50, 247), (50, 248), (50, 249), (50, 250);

INSERT INTO selected\_from (Choice\_ID, College\_ID, Course\_ID)

SELECT Preference.Choice\_ID, Preference.College\_ID, Preference.Course\_ID

FROM Preference

INNER JOIN college\_course

ON Preference.College\_ID = college\_course.College\_ID

AND Preference.Course\_ID = college\_course.Course\_ID;

INSERT INTO Payment (Transaction\_ID, Payment\_No, Pay\_Date)

VALUES

(12110, 1, '2024-11-11'),

(12111, 2, '2024-11-12'),

(12112, 3, '2024-11-12'),

(12113, 4, '2024-11-13'),

(12114, 5, '2024-11-14'),

(12115, 6, '2024-11-15'),

(12116, 7, '2024-11-15'),

(12117, 8, '2024-11-16'),

(12118, 9, '2024-11-17'),

(12119, 10, '2024-11-18'),

(12120, 11, '2024-11-19'),

(12121, 12, '2024-11-20'),

(12122, 13, '2024-11-21'),

(12123, 14, '2024-11-22'),

(12124, 15, '2024-11-22'),

(12125, 16, '2024-11-23'),

(12126, 17, '2024-11-24'),

(12127, 18, '2024-11-25'),

(12128, 19, '2024-11-26'),

(12129, 20, '2024-11-27'),

(12130, 21, '2024-11-28'),

(12131, 22, '2024-11-29'),

(12132, 23, '2024-11-30'),

(12133, 24, '2024-12-01'),

(12134, 25, '2024-12-01'),

(12135, 26, '2024-12-02'),

(12136, 27, '2024-12-03'),

(12137, 28, '2024-12-03'),

(12138, 29, '2024-12-04'),

(12139, 30, '2024-12-05'),

(12140, 31, '2024-12-06'),

(12141, 32, '2024-12-07'),

(12142, 33, '2024-12-08'),

(12143, 34, '2024-12-09'),

(12144, 35, '2024-12-10'),

(12145, 36, '2024-12-11'),

(12146, 37, '2024-12-12'),

(12147, 38, '2024-12-12'),

(12148, 39, '2024-12-13'),

(12149, 40, '2024-12-14'),

(12150, 41, '2024-12-15'),

(12151, 42, '2024-12-16'),

(12152, 43, '2024-12-17'),

(12153, 44, '2024-12-18'),

(12154, 45, '2024-12-19'),

(12155, 46, '2024-12-20'),

(12156, 47, '2024-12-21'),

(12157, 48, '2024-12-22');

INSERT INTO candidate\_payment (username, Payment\_No)

VALUES

(1, 1), (2, 2), (3, 3), (4, 4), (5, 5),

(6, 6), (7, 7), (8, 8), (9, 9), (10, 10),

(11, 11), (12, 12), (13, 13), (14, 14), (15, 15),

(16, 16), (17, 17), (18, 18), (19, 19), (20, 20),

(21, 21), (22, 22), (23, 23), (24, 24), (25, 25),

(26, 26), (27, 27), (28, 28), (29, 29), (30, 30),

(31, 31), (32, 32), (33, 33), (34, 34), (35, 35),

(36, 36), (37, 37), (38, 38), (39, 39), (40, 40),

(41, 41), (42, 42), (43, 43), (44, 44), (45, 45),

(46, 46), (47, 47), (48, 48);

INSERT INTO Allocation (Allocation\_ID, Payment\_Status)

SELECT can\_alloc.Allocation\_ID, TRUE

FROM candidate\_payment

INNER JOIN can\_alloc

ON candidate\_payment.username = can\_alloc.username;

DROP TABLE Confirms;

INSERT INTO confirms (Payment\_No, Allocation\_ID)

SELECT candidate\_payment.Payment\_No, can\_alloc.Allocation\_ID

FROM candidate\_payment

INNER JOIN can\_alloc

ON candidate\_payment.username = can\_alloc.username;

SELECT

c.Candidate\_Name,

c.Roll\_No,

p.Choice\_No,

cc.College\_ID,

co.Branch\_Name,

co.Program\_Name

FROM

Can\_Alloc ca

JOIN

Allocation a ON ca.Allocation\_ID = a.Allocation\_ID

JOIN

Preference p ON a.Allocation\_ID = p.Choice\_ID

JOIN

College\_Course cc ON p.College\_ID = cc.College\_ID AND p.Course\_ID = cc.Course\_ID

JOIN

Course co ON cc.Course\_ID = co.Course\_ID

JOIN

Candidate c ON ca.username = c.username

WHERE

ca.username = 1234;

INSERT INTO col\_allo (College\_ID, Course\_ID, Allocation\_ID)

SELECT Preference.College\_ID, Preference.Course\_ID, Allocation.Allocation\_ID

FROM Allocation

INNER JOIN Preference

ON Allocation.Allocation\_ID = Preference.Choice\_ID;

INSERT INTO determines (Choice\_ID, Allocation\_ID)

SELECT Preference.Choice\_ID, Allocation.Allocation\_ID

FROM Allocation

INNER JOIN Preference

ON Allocation.Allocation\_ID = Preference.Choice\_ID;

SELECT

cand.username,

cand.C\_Name AS Candidate\_Name,

cand.Email AS Candidate\_Email,

a.Allocation\_ID AS Allocation\_From\_Allocation,

col.Allocation\_ID AS Allocation\_From\_Col\_Allo,

col.College\_ID,

col.Course\_ID

FROM

Allocation AS a

INNER JOIN

col\_allo AS col ON a.Allocation\_ID = col.Allocation\_ID

INNER JOIN

can\_alloc AS ca ON col.Allocation\_ID = ca.Allocation\_ID

INNER JOIN

Candidate AS cand ON ca.username = cand.username;