Question 3:

```
A. Procedure to insert data in the employee table:
DELIMITER //
CREATE PROCEDURE InsertEmployeeData(
  IN emp_id_param INT,
  IN employee_name_param VARCHAR(255),
  IN street_param VARCHAR(255),
  IN city_param VARCHAR(255)
)
BEGIN
  INSERT INTO employee VALUES (emp_id_param, employee_name_param, street_param,
  city_param);
END //
DELIMITER;
To call this procedure, you can use:
CALL InsertEmployeeData(16, 'New Employee', '789 Pine St', 'City3');
B. Procedure to update the contact number of an employee in the employee table:
DELIMITER //
CREATE PROCEDURE UpdateContactNumber(
  IN emp_id_param INT,
  IN new_contact_number_param VARCHAR(20)
)
BEGIN
  UPDATE employee
  SET contact_number = new_contact_number_param
  WHERE emp_id = emp_id_param;
END //
DELIMITER;
To call this procedure, you can use:
CALL UpdateContactNumber(1, '123-456-7890');
```

```
C. Procedure to find the name of the manager for a given employee id:
DELIMITER //
CREATE PROCEDURE FindManagerName(
  IN emp_id_param INT
)
BEGIN
  SELECT manager_name
  FROM manage
  JOIN manager ON manage.manager_id = manager.manager_id
  WHERE manage.emp_id = emp_id_param;
END //
DELIMITER:
To call this procedure, you can use:
CALL FindManagerName(1);
D. Procedure to get all the details (emp_id, name, city of residence, company name, city of
work, manager name, salary) for a given employee id:
DELIMITER //
CREATE PROCEDURE GetEmployeeDetails(
  IN emp_id_param INT
)
BEGIN
  SELECT
    employee.emp_id,
    employee.employee_name,
    employee.city AS residence_city,
    company.company_name,
    company.city AS work_city,
    manager.manager_name,
```

```
works.salary

FROM employee

JOIN works ON employee.emp_id = works.emp_id

JOIN company ON works.comp_id = company.comp_id

JOIN manage ON employee.emp_id = manage.emp_id

JOIN manager ON manage.manager_id = manager.manager_id

WHERE employee.emp_id = emp_id_param;

END //

DELIMITER;

To call this procedure, you can use:

CALL GetEmployeeDetails(1);
```

Question 4:

```
SQL code to create the three tables:
```

```
CREATE TABLE Student (
Roll_no INT PRIMARY KEY,
Name VARCHAR(255),
Contact VARCHAR(20),
Marks DECIMAL(5,2)
);
CREATE TABLE Student_copy (
Roll_no INT PRIMARY KEY,
Contact VARCHAR(20)
);
CREATE TABLE Student_update_copy (
Roll_no INT PRIMARY KEY,
New_Contact VARCHAR(20),
Old_Contact VARCHAR(20)
);
```

A. Trigger to insert Roll no and contact number of a student on the insertion of any record in Table Student:

```
DELIMITER //
CREATE TRIGGER InsertStudentCopy

AFTER INSERT

ON Student

FOR EACH ROW

BEGIN

INSERT INTO Student_copy (Roll_no, Contact)

VALUES (NEW.Roll_no, NEW.Contact);

END //

DELIMITER;
```

B. Trigger to insert Roll no, New Contact number, and old contact number of a student on the updation of the contact number in Table Student:

```
DELIMITER //

CREATE TRIGGER UpdateStudentCopy

AFTER UPDATE

ON Student

FOR EACH ROW

BEGIN

IF NEW.Contact 	OLD.Contact THEN

INSERT INTO Student_update_copy (Roll_no, New_Contact, Old_Contact)

VALUES (NEW.Roll_no, NEW.Contact, OLD.Contact);

END IF;

END //

DELIMITER;
```