SQL statements for (Task 1-5)

Task 1: Create a Table named employees.

```
P CREATE TABLE employees (
    employee_id INT AUTO_INCREMENT PRIMARY KEY,
    employee_name VARCHAR(255) NOT NULL,
    manager_id INT NULL,
    CONSTRAINT fk_employees_manager
    FOREIGN KEY (manager_id)
    REFERENCES employees(employee_id)
    ON DELETE SET NULL
    ON UPDATE CASCADE
) ENGINE=InnoDB;
```

Task 2: Create a Table named departments.

```
CREATE TABLE departments (
    department_id INT AUTO_INCREMENT PRIMARY KEY,
    department_name VARCHAR(255) NOT NULL
) ENGINE=InnoDB;
```

Task 3: Create a Table named employee_departments.

```
CREATE TABLE employee_departments (
    employee_id INT NOT NULL,
    department_id INT NOT NULL,
    PRIMARY KEY (employee_id, department_id),
    CONSTRAINT fk_empdept_employee
    FOREIGN KEY (employee_id)
    REFERENCES employees(employee_id)
    ON DELETE CASCADE
    ON UPDATE CASCADE,
    CONSTRAINT fk_empdept_department
    FOREIGN KEY (department_id)
    REFERENCES departments(department_id)
    ON DELETE CASCADE
    ON UPDATE CASCADE
    ON UPDATE CASCADE
    ON UPDATE CASCADE
    ON UPDATE CASCADE
```

Task 4: Create a Table named employee_projects.

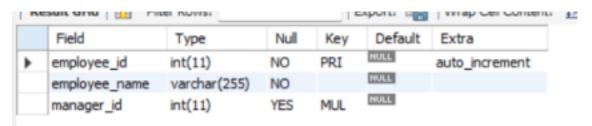
```
37 ● ○ CREATE TABLE employee projects (
38
       employee id INT NOT NULL,
       project_name VARCHAR(255) NOT NULL,
39
         PRIMARY KEY (employee id, project name),
40
41
        CONSTRAINT fk empproj employee
          FOREIGN KEY (employee id)
42
43
           REFERENCES employees(employee id)
44
           ON DELETE CASCADE
45
           ON UPDATE CASCADE
46
       ) ENGINE=InnoDB;
```

Task 5: Create a Table named managers.

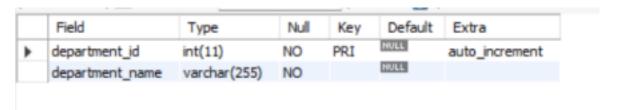
```
CREATE TABLE managers (
    manager_id INT AUTO_INCREMENT PRIMARY KEY,
    employee_id INT NOT NULL,
    CONSTRAINT fk_managers_employee
    FOREIGN KEY (employee_id)
    REFERENCES employees(employee_id)
    ON DELETE CASCADE
    ON UPDATE CASCADE
) ENGINE=InnoDB;
```

TABLE STRUCTURES

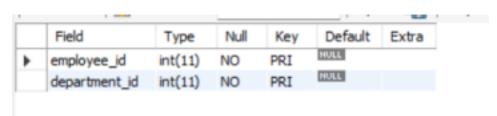
Employees Table:



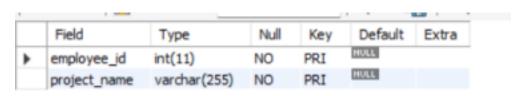
Departments Table:



employee_dept Table:



employee_projects Table:



Managers Table:

