CREATE DATABASE research\_project\_database;

use research\_project\_database;

CREATE TABLE Employee(

SSN INT NOT NULL PRIMARY KEY,

emp\_name VARCHAR(250),

salary INT

);

CREATE TABLE Agency(

ID INT NOT NULL PRIMARY KEY,

agency\_name VARCHAR(250),

address VARCHAR(250)

);

CREATE TABLE Project(

ID INT NOT NULL PRIMARY KEY,

project\_name VARCHAR(250),

manager\_id INT,

budget INT,

duration INT,

agency\_id INT,

UNIQUE(id,agency\_id),

FOREIGN KEY (manager\_id) REFERENCES Employee(SSN),

FOREIGN KEY (agency\_id) REFERENCES Agency(ID)

);

CREATE TABLE Employee\_Project(

ID INT NOT NULL PRIMARY KEY,

employee\_id INT,

project\_id INT,

FOREIGN KEY (employee\_id) REFERENCES Employee(SSN),

FOREIGN KEY (project\_id) REFERENCES Project(ID)

);

INSERT INTO Employee (SSN, emp\_name, salary) VALUES

(101, 'Alice Johnson', 80000),

(102, 'Bob Smith', 75000),

(103, 'Carol Lee', 72000),

(104, 'David Kim', 90000),

(105, 'Eve Patel', 68000);

INSERT INTO Agency (ID, agency\_name, address) VALUES

(1, 'Space Research Org', '123 Galaxy Rd'),

(2, 'Marine Studies Center', '456 Ocean Ave'),

(3, 'Renewable Energy Board', '789 Solar Blvd');

INSERT INTO Project (ID, project\_name, manager\_id, budget, duration, agency\_id) VALUES

(201, 'Lunar Rover Mission', 101, 5000000, 24, 1),

(202, 'Deep Sea Exploration', 102, 3000000, 18, 2),

(203, 'Wind Energy Mapping', 103, 2000000, 12, 3),

(204, 'AI Navigation System', 104, 1500000, 10, 1);

INSERT INTO Employee\_Project (employee\_id, project\_id) VALUES

(101, 201),

(102, 202),

(103, 203),

(104, 204),

(105, 203),

(101, 204),

(103, 201);

