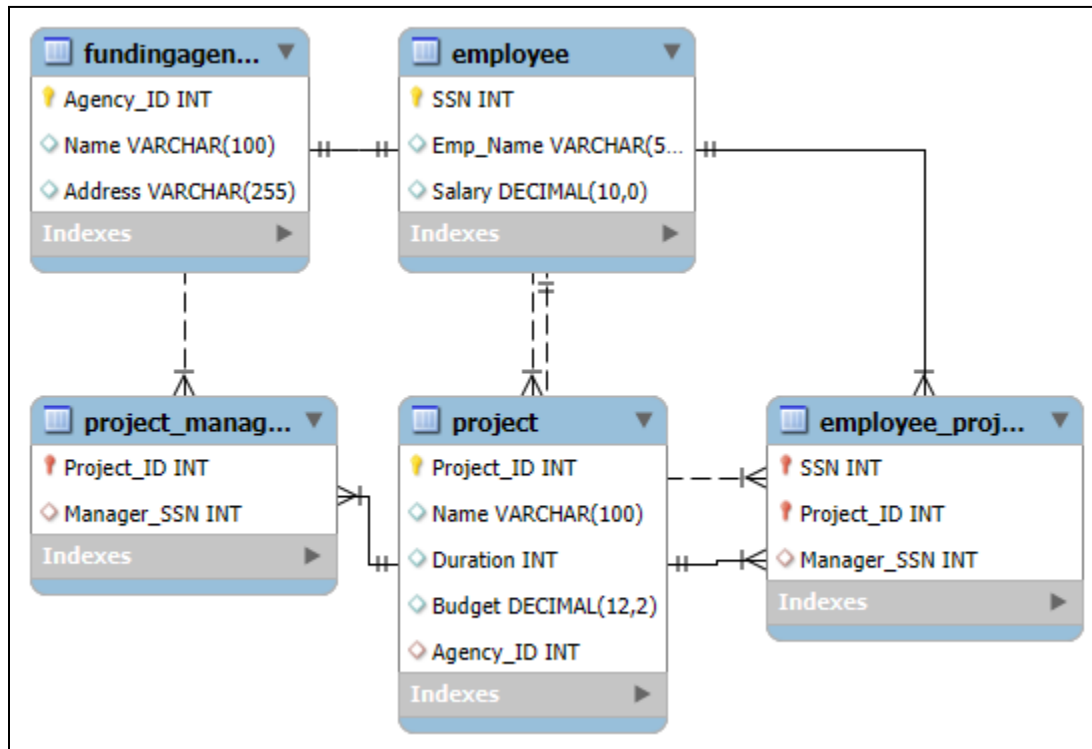


Project 1 : Employee Research Project



1. Employee Table

```
CREATE TABLE Employee (  
    SSN INT PRIMARY KEY,  
    Emp_Name VARCHAR(50),  
    Salary DECIMAL  
);
```

2. FundingAgency Table

```
CREATE TABLE FundingAgency (  
    Agency_ID INT PRIMARY KEY,  
    Name VARCHAR(100),  
    Address VARCHAR(255)  
);
```

3. Project Table

```
CREATE TABLE Project (  
    Project_ID INT PRIMARY KEY,  
    Name VARCHAR(100),  
    Duration INT, -- Assuming duration in days/months  
    Budget DECIMAL(12, 2),  
    Agency_ID INT,  
    FOREIGN KEY (Agency_ID) REFERENCES FundingAgency(Agency_ID)  
);
```

4. Employee_Project Junction Table

```
CREATE TABLE Employee_Project (  
    SSN INT,  
    Project_ID INT,  
    Manager_SSN INT,  
    PRIMARY KEY (SSN, Project_ID),  
    FOREIGN KEY (SSN) REFERENCES Employee(SSN),  
    FOREIGN KEY (Project_ID) REFERENCES Project(Project_ID),  
    FOREIGN KEY (Manager_SSN) REFERENCES Employee(SSN)  
);
```

5. Project_Manager Table

```
CREATE TABLE Project_Manager (  
    Project_ID INT PRIMARY KEY,  
    Manager_SSN INT,  
    FOREIGN KEY (Project_ID) REFERENCES Project(Project_ID),  
    FOREIGN KEY (Manager_SSN) REFERENCES Employee(SSN)  
);
```

-- 1) Employee

INSERT INTO Employee (SSN, Emp_Name, Salary) VALUES

(101, 'John Doe', 55000.00),

(102, 'Jane Smith', 65000.00),

(103, 'Alice Brown', 72000.00);

-- 2) FundingAgency

```

INSERT INTO FundingAgency (Agency_ID, Name, Address) VALUES
(201, 'Tech Research Fund', '123 Tech Ave, Silicon Valley, CA'),
(202, 'Innovation Grants Inc.', '456 Innovation Dr, New York, NY'),
(203, 'Global Funding Group', '789 Global St, London, UK');

```

-- 3) Project

```

INSERT INTO Project VALUES

```

```

(301, 'AI Research', 12, 200000.00, 201),
(302, 'Cloud Migration', 18, 300000.00, 202),
(303, 'Blockchain Platform', 24, 400000.00, 202);

```

-- 4) Project_Manager (one manager per project)

```

INSERT INTO Project_Manager (Project_ID, Manager_SSN) VALUES

```

```

(301, 101),
(302, 102),
(303, 103);

```

-- 5) Employee_Project (who works on which project, with that project's manager)

```

INSERT INTO Employee_Project (SSN, Project_ID, Manager_SSN) VALUES

```

```

(101, 301, 101), -- John manages & works on AI Research
(102, 302, 102), -- Jane manages & works on Cloud Migration
(103, 303, 103); -- Alice manages & works on Blockchain Platform

```

