```
-- ====== TABLE CREATION =======
 CREATE DATABASE research_project;
  Use research project;
-- Funding Agencies Table
CREATE TABLE FundingAgency (
  agency id INT PRIMARY KEY,
  name VARCHAR(100) NOT NULL,
  address VARCHAR(255)
);
-- Employees Table
CREATE TABLE Employee (
  ssn CHAR(11) PRIMARY KEY, -- Format like '123-45-6789'
  name VARCHAR(100) NOT NULL,
  salary DECIMAL(10, 2)
);
-- Projects Table
CREATE TABLE Project (
  project id INT PRIMARY KEY,
  name VARCHAR(100) NOT NULL,
  budget DECIMAL(12, 2),
  duration_years INT,
  agency_id INT,
  manager ssn CHAR(11),
  FOREIGN KEY (agency_id) REFERENCES FundingAgency(agency_id),
  FOREIGN KEY (manager ssn) REFERENCES Employee(ssn),
  UNIQUE (name, agency_id) -- Project name is unique within an agency
);
-- Works_On Table (Employee-Project many-to-many)
CREATE TABLE Works_On (
  ssn CHAR(11),
  project_id INT,
  hours_per_week DECIMAL(4,1),
  PRIMARY KEY (ssn, project id),
  FOREIGN KEY (ssn) REFERENCES Employee(ssn),
  FOREIGN KEY (project_id) REFERENCES Project(project_id)
);
-- ====== SAMPLE DATA INSERTION =======
-- FundingAgency data
INSERT INTO FundingAgency (agency_id, name, address) VALUES
(1, 'ISRO', 'Antariksh Bhavan, Bangalore, India'),
(2, 'NASA', '300 E St SW, Washington, DC, USA'),
(3, 'DRDO', 'Metcalfe House, Delhi, India');
```

-- Employee data

```
INSERT INTO Employee (ssn, name, salary) VALUES ('101-11-1001', 'Ananya Reddy', 72000.00), ('102-22-2002', 'Rahul Verma', 85000.00), ('103-33-3003', 'Sneha Kapoor', 69000.00), ('104-44-4004', 'Amit Joshi', 76000.00);
```

-- Project data

INSERT INTO Project (project_id, name, budget, duration_years, agency_id, manager_ssn) VALUES

(501, 'Chandrayaan-3', 5500000.00, 3, 1, '101-11-1001'),

(502, 'Artemis I', 8000000.00, 4, 2, '102-22-2002'),

(503, 'Agni-V Upgrade', 4200000.00, 2, 3, '103-33-3003');

-- Works On data

INSERT INTO Works_On (ssn, project_id, hours_per_week) VALUES ('101-11-1001', 501, 20.0), ('102-22-2002', 502, 18.5), ('103-33-3003', 501, 10.0), ('104-44-4004', 503, 16.0), ('104-44-4004', 502, 12.0);

