HR Database SQL Script

1. Create the DEPARTMENT Table

```sql
CREATE TABLE Department (
    DNUM INT PRIMARY KEY,
    DName VARCHAR(100) NOT NULL,
    Location VARCHAR(100),

);
```

2. Create the EMPLOYEE Table

```sql
CREATE TABLE EMPLOYEE (
    EmpID INT PRIMARY KEY,
    EmpName VARCHAR(100) NOT NULL,
    gender  char(1),
    Salary DECIMAL(10, 2),
    DeptID INT,
    CONSTRAINT fk_dept FOREIGN KEY (DeptID) REFERENCES DEPARTMENT(DNUM)
 );
```

3. Create the PROJECT Table

```sql
CREATE TABLE PROJECT (
    ProjectID INT PRIMARY KEY,
    ProjectName VARCHAR(100) NOT NULL,
    DeptID INT,
    CONSTRAINT fk_project_dept FOREIGN KEY (DeptID) REFERENCES DEPARTMENT(DNUM)
);
```

4. Insert Data into DEPARTMENT

```sql
INSERT INTO DEPARTMENT VALUES (1, 'IT', 'Cairo');
INSERT INTO DEPARTMENT VALUES (2, 'HR', 'Giza');
INSERT INTO DEPARTMENT VALUES (3, 'Finance', 'Alexandria');
INSERT INTO DEPARTMENT VALUES (5, 'Marketing', 'Tanta');
```

5. Insert Data into EMPLOYEE

```sql
INSERT INTO EMPLOYEE VALUES (101, 'Ahmed Youssef', 'M', 7000, 1);
INSERT INTO EMPLOYEE VALUES (102, 'Sara Adel', 'F', 6500, 2);
INSERT INTO EMPLOYEE VALUES (103, 'Omar Hani', 'M', 6000, 3);
INSERT INTO EMPLOYEE VALUES (104, 'Laila Sameh', 'F', 7200, 1);
INSERT INTO  EMPLOYEE VALUES (105, 'Mostafa Ali', 'M', 5500, 2)
```

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6. Insert Data into PROJECT

```sql
INSERT INTO PROJECT VALUES (201, 'Website Revamp', 1);
INSERT INTO PROJECT VALUES (202, 'HR System', 2);
INSERT INTO PROJECT VALUES (203, 'Budget Planning', 3);
```

7. Update an Employee's Department

```sql
UPDATE EMPLOYEE
SET Salary = 20000
WHERE EmpID = 5;
```

8.   Create Table Dependent

```sql
CREATE TABLE DEPENDENT (
    DependentID INT PRIMARY KEY,
    Name VARCHAR(100),
    Relationship VARCHAR(50),
    EmpID INT,
    FOREIGN KEY (EmpID) REFERENCES EMPLOYEE(EmpID) ON DELETE CASCADE
);
```

9.   Insert into Dependent Table

```sql
INSERT INTO DEPENDENT VALUES (1, 'ODAI', 'SON' , 101)
```

10. Delete a Dependent Record

```sql
DELETE FROM DEPENDENT
WHERE DependentID = 1;
```

11. Retrieve Employees in a Specific Department

```sql
SELECT * FROM EMPLOYEE

WHERE DeptID = 1;
```

12. Find Employees and Their Project Assignments

```
SELECT E.EmpName, P.ProjectName, W.Hours

FROM EMPLOYEE E

JOIN WORKS_ON W ON E.EmpID = W.EmpID

JOIN PROJECT P ON W.ProjectID = P.ProjectID;
```