Emp( empId int ,empName varchar(10),empSal int ,empDeptId int) Dept(deptId int, deptName varchar(10)) Set appropriate primary key and Foreign key. 1. Create table Emp(empID) and Dept(deptID). 2. Add Not Null constraint to empName. 3. Insert few Records. 4. Add Unique to deptLoc. 5. Add column deptloc varchar (10) to dept table

-- Step 1: Create Dept table with deptId as the primary key

CREATE TABLE Dept (

deptId INT PRIMARY KEY,

deptName VARCHAR(10),

deptLoc VARCHAR(20) -- Increased size to avoid length error

);

-- Step 1: Create Emp table with empId as the primary key and empDeptId as a foreign key referencing Dept(deptId)

CREATE TABLE Emp (

empId INT PRIMARY KEY,

empName VARCHAR(10) NOT NULL,

-- Step 2: Adding NOT NULL constraint to empName

empSal INT,

empDeptId INT,

FOREIGN KEY (empDeptId) REFERENCES Dept(deptId)

);

-- Step 3: Insert records into Dept table first

INSERT INTO Dept (deptId, deptName, deptLoc) VALUES

(1, 'HR', 'New York'),

(2, 'IT', 'San Francisco'),

(3, 'Finance', 'Chicago');

-- Step 3: Insert records into Emp table next

INSERT INTO Emp (empId, empName, empSal, empDeptId) VALUES

(101, 'Alice', 5000, 1),

(102, 'Bob', 6000, 2),

(103, 'Charlie', 5500, 3),

(104, 'Daisy', 6200, 2);

-- Step 4: Add a UNIQUE constraint to deptLoc in Dept table

ALTER TABLE Dept

ADD CONSTRAINT unique\_deptLoc UNIQUE (deptLoc);

-- Step 5: If deptLoc column wasn't added earlier, it would be done as follows

-- ALTER TABLE Dept ADD deptLoc VARCHAR(20);

Alternate codes

-- Creating the Dept table

CREATE TABLE Dept (

deptId INT PRIMARY KEY, -- Setting deptId as Primary Key

deptName VARCHAR2(10) -- Department Name

);

-- Creating the Emp table

CREATE TABLE Emp (

empId INT PRIMARY KEY, -- Setting empId as Primary Key

empName VARCHAR2(10) NOT NULL, -- empName with NOT NULL constraint

empSal INT, -- Employee Salary

empDeptId INT, -- Foreign key linking to Dept

CONSTRAINT fk\_dept FOREIGN KEY (empDeptId) REFERENCES Dept(deptId) -- Foreign Key constraint

);

-- Inserting records into Dept table

INSERT INTO Dept (deptId, deptName) VALUES (1, 'HR');

INSERT INTO Dept (deptId, deptName) VALUES (2, 'IT');

INSERT INTO Dept (deptId, deptName) VALUES (3, 'Finance');

-- Inserting records into Emp table

INSERT INTO Emp (empId, empName, empSal, empDeptId) VALUES (101, 'John', 5000, 1);

INSERT INTO Emp (empId, empName, empSal, empDeptId) VALUES (102, 'Jane', 7000, 2);

INSERT INTO Emp (empId, empName, empSal, empDeptId) VALUES (103, 'Alice', 6000, 3);

INSERT INTO Emp (empId, empName, empSal, empDeptId) VALUES (104, 'Bob', 8000, 2);

-- Add the column deptLoc to Dept table and set it as UNIQUE

ALTER TABLE Dept

ADD (deptLoc VARCHAR2(10));

-- Add UNIQUE constraint on deptLoc

ALTER TABLE Dept

ADD CONSTRAINT unique\_deptLoc UNIQUE (deptLoc);

SELECT \* FROM Dept;

SELECT \* FROM Emp;