SQL Preparation Dataset - Cognizant Technical Assessment

# Employee Table

CREATE TABLE Employee (  
 emp\_id INT PRIMARY KEY,  
 emp\_name VARCHAR(50),  
 dept\_id INT,  
 salary INT,  
 manager\_id INT,  
 hire\_date DATE  
);  
  
INSERT INTO Employee VALUES  
(1, 'Alice', 101, 90000, NULL, '2015-03-01'),  
(2, 'Bob', 101, 60000, 1, '2017-07-15'),  
(3, 'Charlie', 101, 75000, 1, '2018-06-20'),  
(4, 'David', 102, 50000, NULL, '2016-01-05'),  
(5, 'Eva', 102, 45000, 4, '2019-08-11'),  
(6, 'Frank', 102, 55000, 4, '2020-09-23'),  
(7, 'Grace', 103, 80000, NULL, '2014-12-12'),  
(8, 'Helen', 103, 72000, 7, '2019-04-14'),  
(9, 'Ian', 103, 68000, 7, '2021-02-02'),  
(10, 'Jack', 104, 95000, NULL, '2013-05-09'),  
(11, 'Kathy', 104, 85000, 10, '2016-10-01'),  
(12, 'Leo', 104, 87000, 10, '2018-12-19');

# Department Table

CREATE TABLE Department (  
 dept\_id INT PRIMARY KEY,  
 dept\_name VARCHAR(50),  
 location VARCHAR(50)  
);  
  
INSERT INTO Department VALUES  
(101, 'IT', 'New York'),  
(102, 'HR', 'Chicago'),  
(103, 'Finance', 'San Francisco'),  
(104, 'Operations', 'Boston');

# Project Table

CREATE TABLE Project (  
 proj\_id INT PRIMARY KEY,  
 proj\_name VARCHAR(50),  
 dept\_id INT,  
 budget INT  
);  
  
INSERT INTO Project VALUES  
(201, 'Website Revamp', 101, 50000),  
(202, 'Mobile App', 101, 70000),  
(203, 'Recruitment Drive', 102, 30000),  
(204, 'Payroll System', 103, 40000),  
(205, 'Audit Compliance', 103, 60000),  
(206, 'Logistics Optimization', 104, 80000);

# WorksOn Table

CREATE TABLE WorksOn (  
 emp\_id INT,  
 proj\_id INT,  
 hours INT,  
 PRIMARY KEY (emp\_id, proj\_id)  
);  
  
INSERT INTO WorksOn VALUES  
(2, 201, 30),  
(3, 201, 25),  
(3, 202, 20),  
(5, 203, 40),  
(6, 203, 25),  
(8, 204, 35),  
(9, 204, 20),  
(9, 205, 30),  
(11, 206, 45),  
(12, 206, 50);