-- Creating table Employee

CREATE TABLE Employee (

empid VARCHAR(10) PRIMARY KEY,

name VARCHAR(50),

address VARCHAR(50),

DOB DATE,

job VARCHAR(50),

salaryCode VARCHAR(10),

depid VARCHAR(10),

manager VARCHAR(50) ,

schemeid VARCHAR(10)

);

-- Creating table Department

CREATE TABLE Department (

depid VARCHAR(10) PRIMARY KEY,

name VARCHAR(50)

);

-- Creating table SalaryGrade

CREATE TABLE SalaryGrade (

salaryCode VARCHAR(10) PRIMARY KEY,

startSalary INT(10),

finishSalary INT(10)

);

-- Creating table PensionScheme

CREATE TABLE PensionScheme (

schemeid VARCHAR(10) PRIMARY KEY,

name VARCHAR(50),

rate DECIMAL(5,2)

);

-- Altering the foreign key of employee table

ALTER TABLE Employee ADD FOREIGN KEY(depid) REFERENCES Department(depid) ON DELETE SET NULL;

ALTER TABLE Employee ADD FOREIGN KEY(schemeid) REFERENCES PensionScheme(schemeid) ON DELETE SET NULL;

ALTER TABLE Employee ADD FOREIGN KEY(salaryCOde) REFERENCES SalaryGrade(salaryCode) ON DELETE SET NULL;

-- First inserting the foregien key table data

INSERT INTO Department VALUES

('D10', 'Administration'),

('D20', 'Finance'),

('D30', 'Sales'),

('D40', 'Maintenance'),

('D50', 'IT Support');

INSERT INTO PensionScheme VALUES

('S110', 'AXA' ,0.5),

( 'S121', 'Premier', 0.6),

( 'S124' ,'Stakeholder', 0.4),

('S116', 'Standard' ,0.4);

INSERT INTO SalaryGrade VALUES

('S1' ,15000 ,18000),

('S2' ,18001 ,22000),

('S3', 22001 ,25000),

('S4', 25001, 29000),

('S5', 29001, 38000);

-- Inserting the data in table employee

INSERT INTO employee VALUES

('E101', 'Young, S.', '199 London Road', '2076/03/05' ,'Clerk' ,'S1', 'D10', 'E110', 'S116'),

('E301', 'April, H.', '20 Glade close', '2079/03/10' ,'Sales Person', 'S2', 'D30', 'E310', 'S124'),

('E310', 'Newgate, E.', '10 Heap Street', '2080/11/28' ,'Manager', 'S5', 'D30', NULL ,'S121'),

('E501', 'Teach, E', '22 railway road', '2072/02/12', 'Analyst' ,'S5', 'D50', NULL ,'S121'),

('E102', 'Hawkins, M.', '3 High Street', '2074/07/13', 'Clerk', 'S1', 'D10', 'E110', 'S116'),

('E110', 'Watkins, J.',' 11 crescent road' ,'2069/06/25', 'Manager', 'S5', 'D10', NULL ,'S121');

Task b 2c

SELECT name, e.empid FROM Employee e where

(SELECT s.SalaryCode FROM SalaryGrade s WHERE FinishSalary >35000 ) =e.SalaryCode

AND e.empid!= ('E110') And e.empid!= ('E310') ;

Task B 2

SELECT e.name , s.startsalary, e.depid FROM Employee e, SalaryGrade s

WHERE e.salaryCode=s.SalaryCode Order BY depid DESC, e.name;

Task B 3

SELECT p.name, COUNT(e.schemeid) numberofemp From Pensionscheme p, Employee e WHERE p.schemeid =e.schemeid GROUP BY e.schemeid;

Task B 4

SELECT e.empid, e.name, tt.name AS Manager\_name FROM Employee e

JOIN

(SELECT a.empid, a.name FROM Employee a WHERE a.manager is null) AS tt ON e.manager = tt.empid ;