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1) Creating tables :

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/\* Departments table creation \*/

CREATE TABLE Departments (

DepartmentID int PRIMARY KEY AUTO\_INCREMENT,

DepartmentName varchar(255)

);

/\* Employees table creation \*/

CREATE TABLE Employees (

EmployeeID int PRIMARY KEY AUTO\_INCREMENT,

FirstName varchar(255),

LastName varchar(255),

Gender varchar(2),

HireDate DATE,

DateOfBirth DATE,

DepartmentID int,

FOREIGN KEY (DepartmentID) REFERENCES Departments(DepartmentID)

);

/\* Salary table creation \*/

CREATE TABLE Salary (

EmployeeSalaryID int PRIMARY KEY AUTO\_INCREMENT,

EmployeeSalary int,

FromDate DATE,

ToDate DATE,

EmployeeID int,

FOREIGN KEY(EmployeeID) REFERENCES Employees(EmployeeID)

);

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2) Inserting data into tables :

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/\* Insertion of data in Departments Table \*/

insert into Departments(DepartmentID, DepartmentName) values (1, HR), (2, Technical), (3, Marketing), (4, HR), (5, Sales);

/\* Insertion of data in Employees Table \*/

Insert into Employees(EmployeeID, FirstName, LastName, Gender, HireDate, DateOfBirth, DepartmentID) values

(1, 'Simran', 'Redij', 'F', '2022-10-01', '2001-04-20', 2),

(2, 'Vishal', 'Dikhit', 'M', '2020-10-03', '2000-10-18' , 2),

(3, 'Sunil', 'Poonia', 'M', '2018-12-05', '2000-11-22', 4),

(4, 'Pallavi', 'Priya', 'F', '2020-05-07', '2002-05-14', 3),

(5, 'Kavya', 'Swamy', 'F', '2015-10-09', '2006-09-19', 4);

/\* Insertion of data in Salary Table \*/

Insert into Salary values

(1, 10000, '2022-10-01', '2022-10-31', 1),

(2, 30000, '2020-10-03', '2021-10-31', 2),

(3, 20000, '2018-12-05', '2019-10-31', 3),

(4, 50000, '2020-05-07', '2021-10-31', 4),

(5, 40000, '2015-10-09', '2016-10-31', 5),

(6, 150000, '2022-10-31', '2023-10-31', 1),

(7, 300000, '2021-10-31', '2022-10-31', 2),

(8, 200000, '2019-10-31', '2020-10-31', 3),

(9, 500000, '2021-10-31', '2022-10-31', 4),

(10, 400000, '2016-10-31', '2017-10-31', 5);

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3) Problems :

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Q.1) Show employeeID, firstName, lastName, dateOfBirth of technical or marketing department employees with salary greater than 20,000.

Q.2) Find the number of female employees that work in Technical Department.

Q.3) Sort the list of employees according to their Date of Birth in descending order & print data from 3rd row onwards.

Q.4) Display the list of employees whose id is even & first name ends with 'l' or 'i'. Also print the department names.

Q.5) Find the sum of salaries of all male employees whose date of joining is between 2018-12-05 & 2021-10-31 & display it as a column named 'SumOfSalary'.