25. Exercises

Open SQL Server

Create a database as "HrSystem".

Select HrSystem database, run the below script in your database.

SQL Script:

```
CREATE TABLE Departments(
    ID INT PRIMARY KEY,
    Name VARCHAR(10) NOT NULL
);
CREATE TABLE Employees(
   ID INT PRIMARY KEY,
    Code VARCHAR(10) NOT NULL,
    DepartmentID INT NULL,
    Salary DECIMAL(12,2) NOT NULL,
    IsActive BIT DEFAULT 1,
    FOREIGN KEY (DepartmentId) REFERENCES Departments(Id)
);
INSERT Departments(ID, Name) VALUES(1, 'Production'), (2, 'HR')
, (3, 'Marketing'), (4, 'IT'), (5, 'Accounting');
INSERT Employees(ID, DepartmentId, Salary, IsActive) VALUES(1, '001', 1, 7000, 1)
, (2, '002', 2, 8000, 1), (3, '003', 1, 8000, 0), (4, '004', NULL, 8000, 1)
, (5, '005',3, 9000, 1), (6, '006', NULL, 7000, 1);
```

Write SQL Queries for following questions using your database

Use Employee Code to identify an employee

- 1. Get all employee data
- 2. Get all records with Employee Code and Salary (Output should be Employee Code and Salary)
- 3. Get All departments
- 4. Get employees who have a salary greater than 7000
- 5. Get employees who have not allocated to a department
- 6. List employees who have left the company
- 7. List employees having a minimum of 8000 salary
- 8. Who is the latest employee
- 9. Who is the oldest employee

- 10. What is the minimum salary, maximum salary, average salary
- 11. Calculate monthly cost for salaries
- 12. Calculate total employees in each department
- 13. Calculate cost per each department
- 14. Which department having minimum employees
- 15. Which department having maximum employees
- 16. Calculate employees count in each department
- 17. What is the average employees of a department
- 18. How many employees working in the company
- 19. Write an SQL statement to add a new employee
- 20. Write an SQL statement to Update the last employee
- 21. Write an SQL statement to Add a new department
- 22. Write an SQL statement to Update the last department
- 23. Write an SQL statement to Delete the last employee
- 24. Write an SQL statement to Delete the last department
- 25. What department has a minimum of one employee