--employee table

create table Employee(

EmployeeID int primary key,

Name varchar(50),

DepartmentID int,

Salary int,

HireDate date);

INSERT INTO Employee VALUES

(101, 'Arun', 2, 60000, '2022-04-12'),

(102, 'Meena', 1, 45000, '2024-09-15'),

(103, 'Karthik', 2, 75000, '2021-11-25'),

(104, 'Divya', 3, 80000, '2023-03-01'),

(105, 'Sneha', 4, 50000, '2025-02-20');

--department table

create table Department(

DearptmentId int,

DepartmentName varchar(50));

INSERT INTO Department VALUES

(1, 'HR'),

(2, 'IT'),

(3, 'Finance'),

(4, 'Sales');

--performance table

create table Performance(

PerformanceId int,

EmployeeId int,

ReviewDate date,

Score int,

foreign key (EmployeeId) REFERENCES Employee(EmployeeId));

INSERT INTO Performance VALUES

(1, 101, '2024-01-10', 88),

(2, 102, '2024-02-15', 91),

(3, 103, '2024-03-12', 78),

(4, 104, '2024-04-05', 95),

(5, 105, '2024-05-08', 60);

--1

SELECT TOP 3 E.Name,

D.DepartmentName,

P.Score,

P.ReviewDate

FROM Performance P

JOIN Employee E

ON P.EmployeeID = E.EmployeeID

JOIN Department D

ON E.DepartmentID = D.DepartmentID

ORDER BY P.Score DESC;

--2--

SELECT D.DepartmentName,

AVG(P.Score) AS AvgScore

FROM Performance P

JOIN Employee E

ON P.EmployeeID = E.EmployeeID

JOIN Department D

ON E.DepartmentID = D.DepartmentID

GROUP BY D.DepartmentName;

--3--

SELECT E.Name,

E.Salary,

P.Score

FROM Employee E

JOIN Performance P

ON E.EmployeeID = P.EmployeeID

WHERE E.Salary > (SELECT AVG(Salary) FROM Employee)

AND P.Score > 80;

--4

SELECT Name,

HireDate

FROM Employee

WHERE HireDate >= DATEADD(YEAR, -1, GETDATE());

