

--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(  
DepartmentId 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());
```

The screenshot displays the SQL Server Enterprise Edition interface. The left pane shows the 'SQLQuery1.sql' file with a query that has been executed. The right pane shows the results of the query, which are displayed in four tables. The first table shows the top 3 employees by score, the second table shows the average score by department, the third table shows the salary of the top 3 employees, and the fourth table shows the hire date of employees hired in the last year.

SQLQuery1.sql

```
37 (4, 164, '2024-04-05', 95),  
38 (5, 165, '2024-05-08', 68);  
39  
40  
41 SELECT TOP 3 E.Name,  
42 D.DepartmentName,  
43 P.Score,  
44 P.ReviewDate  
45 FROM Performance P  
46 JOIN Employee E  
47 ON P.EmployeeID = E.EmployeeID  
48 JOIN Department D  
49 ON E.DepartmentID = D.DepartmentID  
50 ORDER BY P.Score DESC;  
51  
52 SELECT D.DepartmentName,  
53 AVG(P.Score) AS AvgScore  
54 FROM Performance P  
55 JOIN Employee E  
56 ON P.EmployeeID = E.EmployeeID  
57 JOIN Department D  
58 ON E.DepartmentID = D.DepartmentID  
59 GROUP BY D.DepartmentName;  
60  
61 SELECT E.Name,  
62 E.Salary,  
63 P.Score  
64 FROM Employee E  
65 JOIN Performance P  
66 ON E.EmployeeID = P.EmployeeID  
67 WHERE E.Salary > (SELECT AVG(Salary) FROM Employee)  
68 AND P.Score > 80;  
69  
70 SELECT Name,  
71 HireDate  
72 FROM Employee  
73 WHERE HireDate >= DATEADD(YEAR, -1, GETDATE());
```

Results:

Name	DepartmentName	Score	ReviewDate
Chloe	Finance	95	2024-04-05
Meena	HR	91	2024-02-15
Arun	IT	88	2024-01-10

DepartmentName	AvgScore
Finance	95
HR	91
IT	83
Sales	60

Name	Salary	Score
Chloe	80000	95

Name	HireDate
Meena	2024-09-15
Sheila	2025-02-20

Query executed successfully at 15:32:26

Ready 37°C Partly sunny