SQL SERVER CODE CHALLENGE

```
Create database Employee_database;
use Employee_database;
```

1. Create table employeee and insert values

```
create table employee (
EmpID INT PRIMARY KEY,
Name VARCHAR (50),
DepartmentID INT,
Salary DECIMAL (10,2),
Hiredate DATE,
);
-- Employees
INSERT INTO Employee VALUES
(101, 'Aarthi', 2, 70000, '2023-07-15'),
(102, 'Ravi', 1, 50000, '2022-01-10'),
(103, 'Meena', 2, 80000, '2021-05-20'),
(104, 'Gokul', 3, 75000, '2024-03-05'),
(105, 'Swetha', 3, 68000, '2023-09-01');

select * from employee;
```

	EmpID	Name	DepartmentID	Salary	Hiredate
1	101	Aarthi	2	70000.00	2023-07-15
2	102	Ravi	1	50000.00	2022-01-10
3	103	Meena	2	80000.00	2021-05-20
4	104	Gokul	3	75000.00	2024-08-10
5	105	Swetha	3	68000.00	2023-09-01

2. Create table Department and insert values

```
create table Department (
DepartmentID INT PRIMARY KEY,
```

```
Departmentname VARCHAR (100),
);
-- Departments
INSERT INTO Department VALUES
(1, 'HR'),
(2, 'IT'),(3, 'Finance');

select * from Department;
```

	DepartmentID	Departmentname
1	1	HR
2	2	IT
3	3	Finance

3.Create performance table and insert values

```
create table Performance (
PerformanceId INT PRIMARY KEY,
EmployeeID INT,
Reviewdate DATE,
Score INT,
FOREIGN KEY (EmployeeID) REFERENCES employee (EmpID)
);

-- Performance
INSERT INTO Performance VALUES
(1, 101, '2024-05-01', 95),
(2, 102, '2024-04-15', 78),
(3, 103, '2024-06-01', 88),
(4, 104, '2024-06-05', 92),
(5, 105, '2024-05-10', 84),
(6, 101, '2023-10-20', 80),
(7, 102, '2023-11-25', 85),
```

(8, 103, '2023-12-10', 90);

select * from Performance;

	PerformanceId	EmployeeID	Reviewdate	Score
1	1	101	2024-05-01	95
2	2	102	2024-04-15	78
3	3	103	2024-06-01	88
4	4	104	2024-06-05	92
5	5	105	2024-05-10	84
6	6	101	2023-10-20	80
7	7	102	2023-11-25	85
8	8	103	2023-12-10	90

TASK TO DONE

1. Top performers: list out 3 emp who has done excellent score, show name, dept, score, reviedate

SELECT TOP 3 E. Name, D. DepartmentName, P. Score, P. ReviewDate

FROM Performance P

JOIN Employee E ON P. EmployeeID = E. EmpID

JOIN Department D ON E. DepartmentID = D. DepartmentID

ORDER BY P.Score DESC;

	Name	DepartmentName	Score	ReviewDate
1	Aarthi	IT	95	2024-05-01
2	Gokul	Finance	92	2024-06-05
3	Meena	IT	90	2023-12-10

2. Department-wise average score

SELECT D. Department Name, AVG (P. Score) AS AvgScore

FROM Performance P

JOIN Employee E ON P. EmployeeID = E. EmpID

```
JOIN Department D ON E. DepartmentID = D. DepartmentID
GROUP BY D. DepartmentName;
```

	DepartmentName	AvgScore
1	Finance	88
2	HR	81
3	IT	88

3. Salary vs Performance Score

```
SELECT E. Name, E. Salary, P. Score
FROM Employee E
JOIN Performance P ON E. EmpID = P. EmployeeID
WHERE
   E. Salary > (SELECT AVG(Salary) FROM Employee
   AND P. Score > 80;
```

	Name	Salary	Score
1	Aarthi	70000.00	95
2	Meena	80000.00	88
3	Gokul	75000.00	92
4	Meena	80000.00	90

4. New Joiners in the Last Year

```
SELECT Name, HireDate
FROM Employee
WHERE HireDate >= DATEADD(YEAR, -1, GETDATE());
```

	Name	HireDate
1	Gokul	2024-08-10