 Marwadi University	Marwadi University Faculty of Engineering and Technology Department of Information and Communication Technology
Subject: .NET Technologies (01CT1518)	Name: Shashank Bagda
	Enrolment No: 92100133020

.NET Assignment 2 - SQL Assignment

Table 1 : t_Employee

EmployeeId	EmpName	Age
1	Hiten	27
2	Ravi	23
3	Kaushik	26
4	Suresh	20
5	Ramesh	25

Id	EmpId (Foreign key)	MonthName	Salary
1	1	Jan	15000
2	1	Feb	16000
3	1	Mar	14000
4	2	Jan	10000
5	2	Mar	12000
6	3	Feb	13000
7	4	Jan	18000
8	4	Feb	17500
9	5	Jan	20000
10	5	Feb	19750
11	5	Mar	20250

```
CREATE DATABASE Employee;
```

- System Databases
- Database Snapshots
- Employee
 - Database Diagrams
 - Tables
 - Views
 - External Resources
 - Synonyms
 - Programmability



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```
--CREATE DATABASE Employee;
USE Employee;

--CREATE DATABASE Employee;
USE Employee;
CREATE TABLE t_Employee (
    EmployeeId INT PRIMARY KEY,
    EmpName NVARCHAR(50),
    Age INT
);
```

100 %
Messages
Commands completed successfully.


```
CREATE TABLE t_Salary (
    Id INT PRIMARY KEY,
    EmpId INT,
    MonthName NVARCHAR(3),
    Salary INT
);
INSERT INTO t_Salary (Id, EmpId, MonthName, Salary)
VALUES
    (1, 1, 'Jan', 15000),
    (2, 1, 'Feb', 16000),
    (3, 1, 'Mar', 14000),
    (4, 2, 'Jan', 10000),
    (5, 2, 'Mar', 12000),
    (6, 3, 'Feb', 13000),
    (7, 4, 'Jan', 18000),
    (8, 4, 'Feb', 17500),
    (9, 5, 'Jan', 20000),
    (10, 5, 'Feb', 19750),
    (11, 5, 'Mar', 20250);
```

100 %
Messages
(11 rows affected)

1. Write a SQL query which returns salary of February month for all employees and if employee's salary is not available then it should be 0.

```
SELECT e.EmployeeId, e.EmpName, ISNULL(s.Salary, 0) AS FebruarySalary
FROM t_Employee e
LEFT JOIN t_Salary s ON e.EmployeeId = s.EmpId AND s.MonthName = 'Feb';
```

	EmployeeId	EmpName	FebruarySalary
1	1	Hiten	16000
2	2	Ravi	0
3	3	Kaushik	13000
4	4	Suresh	17500
5	5	Ramesh	19750

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2. Write a SQL query which returns EmployeeId, Month, Salary whose Age is >= 25.


```
SELECT s.EmpId AS EmployeeId, s.MonthName AS Month, s.Salary
FROM t_Salary s
JOIN t_Employee e ON s.EmpId = e.EmployeeId
WHERE e.Age >= 25;
```

	EmployeeId	Month	Salary
1	1	Jan	15000
2	1	Feb	16000
3	1	Mar	14000
4	3	Feb	13000
5	5	Jan	20000
6	5	Feb	19750
7	5	Mar	20250

3. Write a SQL query which returns Average salary of Jan month.

```
SELECT AVG(Salary) AS AverageJanuarySalary
FROM t_Salary
WHERE MonthName = 'Jan';
```

	AverageJanuarySalary
1	15750

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4. Write a Stored procedure which returns all employee's details EmployeeName, Month, Salary with Grouping of EmployeeName.

```

CREATE PROCEDURE GetEmployeeDetails
AS
BEGIN
    SELECT e.EmpName, s.MonthName, s.Salary
    FROM t_Employee e
    LEFT JOIN t_Salary s ON e.EmployeeId = s.EmpId;
END;

```

100 %

Messages


Commands completed successfully.

5. Write a Stored procedure to return employeewise Salary if EmployeeId is provided otherwise all employee's salary for particular month which is to be passed as parameter as well.

```

CREATE PROCEDURE GetEmployeeSalary
    @EmployeeId INT = NULL,
    @MonthName NVARCHAR(3) = NULL
AS
BEGIN
    IF @EmployeeId IS NOT NULL
    BEGIN
        SELECT e.EmpName, s.MonthName, s.Salary
        FROM t_Employee e
        JOIN t_Salary s ON e.EmployeeId = s.EmpId
        WHERE e.EmployeeId = @EmployeeId;
    END
    ELSE IF @MonthName IS NOT NULL
    BEGIN
        SELECT e.EmpName, s.MonthName, s.Salary
        FROM t_Employee e
        LEFT JOIN t_Salary s ON e.EmployeeId = s.EmpId AND s.MonthName =
        @MonthName;
    END
    ELSE
    BEGIN
        RAISEERROR('Please provide either EmployeeId or MonthName parameter.',
16, 1);
    END;
END;

```

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6. Write a trigger for Employee salary deletion to track details when and who deleted salary
Note: For tracking details need to create Audit table for Salary table.

```

CREATE TABLE SalaryAudit (
    EmployeeId INT, DeletedBy
    NVARCHAR(255), DeletionDate
    DATETIME
);

CREATE TRIGGER DeleteSalaryAuditTrigger
ON t_Salary
AFTER DELETE
AS
BEGIN
    INSERT INTO SalaryAudit (EmployeeId, DeletedBy, DeletionDate)
    SELECT d.EmpId, SUSER_SNAME(), GETDATE()
    FROM deleted d;
END;

```