Stored Procedures

1. A stored procedure is a group of SQL statements created and stored in that DB
2. It will also accept input parameters
3. It will also reduce network traffic and improve performance

```
CREATE PROCEDURE TEST
AS
Select *
From EmployeeDemographics
```
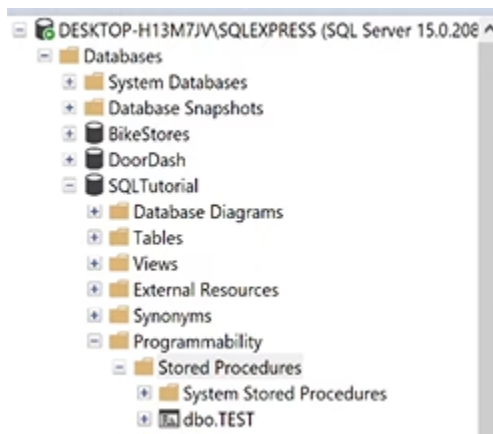
25 %

Messages

Commands completed successfully.

Completion time: 2021-03-07T22:20:07.3775789-06:00

4. A basic stored procedure

```
DESKTOP-H13M7JV\SQLEXPRESS (SQL Server 15.0.208
  Databases
    System Databases
    Database Snapshots
    BikeStores
    DoorDash
    SQLTutorial
      Database Diagrams
      Tables
      Views
      External Resources
      Synonyms
      Programmability
        Stored Procedures
          System Stored Procedures
          dbo.TEST
```

5. So now how do we use this Stored Procedure? ..to use them

```
EXEC TEST
```

125 %

Results   Messages

	EmployeeID	FirstName	LastName	Age	Gender
1	1001	Jim	Halpert	30	Male
2	1002	Pam	Beasley	30	Female
3	1003	Dwight	Schrute	29	Male
4	1004	Angela	Martin	31	Female
5	1005	Toby	Flenderson	32	Male
6	1006	Michael	Scott	35	Male
7	1007	Meredith	Palmer	32	Female
8	1008	Stanley	Hudson	38	Male
9	1009	Kevin	Malone	31	Male

```
CREATE PROCEDURE Temp_Employee
AS
Create table #temp_employee (
JobTitle varchar(100),
EmployeesPerJob int ,
AvgAge int,
AvgSalary int
)
```

6. Another example

```
Insert into #temp_employee
SELECT JobTitle, Count(JobTitle), Avg(Age), AVG(salary)
FROM SQLTutorial..EmployeeDemographics emp
JOIN SQLTutorial..EmployeeSalary sal
    ON emp.EmployeeID = sal.EmployeeID
group by JobTitle
```

7. If we execute this..then we can see our temp_Employee created from SP

```
EXEC Temp_Employee
```

125 %

Results Messages

	JobTitle	EmployeesPerJob	AvgAge	AvgSalary
1	Accountant	2	31	44500
2	HR	1	32	50000
3	Receptionist	1	30	36000
4	Regional Manager	1	35	65000
5	Salesman	3	32	52000
6	Supplier Relations	1	32	41000

8. Lets execute it now