Stored procedures

Syntax –

CREATE PROCEDURE ProcedureName AS

BEGIN

END

EXEC ProcedureName

Example –

CREATE PROCEDURE GetAmount AS

BEGIN

SELECT COUNT(Brand) TotalCompany,

AVG(AmountInvestedlakhs) TotalAmount

FROM Shark

WHERE Sector = 'Health'

END

EXEC GetAmount

Parameters –

Example –

ALTER PROCEDURE GetFoodAmount @Sector NVARCHAR(50)

AS

BEGIN

SELECT COUNT(Brand) TotalCompany,

AVG(AmountInvestedlakhs) TotalAmount

FROM Shark

WHERE Sector = @Sector

END

EXEC GetFoodAmount @Sector = 'Food'

Multiple Statements –

ALTER PROCEDURE GetFoodAmount @Sector NVARCHAR(50)

AS

BEGIN

SELECT COUNT(Brand) TotalCompany,

AVG(AmountInvestedlakhs) TotalAmount

FROM Shark

WHERE Sector = @Sector;

SELECT COUNT(Brand) TotalBrand,

SUM(AmoutAsked) TotalAmount

FROM Shark

WHERE Sector = @Sector;

END

EXEC GetFoodAmount @Sector = 'Food'

Variables –

Example –

ALTER PROCEDURE GetFoodAmount @Sector NVARCHAR(50)

AS

BEGIN

DECLARE @TotalBrands INT, @AvgAmount FLOAT;

SELECT @TotalBrands = COUNT(Brand),

@AvgAmount = AVG(AmountInvestedlakhs)

FROM Shark

WHERE Sector = @Sector;

PRINT 'Total Brand came from ' + @Sector + ':' + CAST(@TotalBrands AS NVARCHAR);

PRINT 'Average Score from ' + @Sector + ':' + CAST(@AvgAmount AS NVARCHAR);

SELECT COUNT(Brand) TotalBrand,

SUM(AmoutAsked) TotalAmount

FROM Shark

WHERE Sector = @Sector;

END

GO

EXEC GetFoodAmount @Sector ='Health'

Control Flow –

ALTER PROCEDURE GetFoodAmount @Sector NVARCHAR(50)

AS

BEGIN

DECLARE @TotalBrands INT, @AvgAmount FLOAT;

--Cleaning up

IF EXISTS(SELECT 1 FROM Shark WHERE AmountInvestedlakhs IS NULL AND Sector = @Sector)

BEGIN

PRINT 'Updateing null to zero';

UPDATE Shark

SET AmountInvestedlakhs = 0

WHERE AmountInvestedlakhs IS NULL AND Sector = @Sector;

END

ELSE

BEGIN

PRINT 'No nulls'

END;

--Prepare Reports

SELECT @TotalBrands = COUNT(Brand),

@AvgAmount = AVG(AmountInvestedlakhs)

FROM Shark

WHERE Sector = @Sector;

PRINT 'Total Brand came from ' + @Sector + ':' + CAST(@TotalBrands AS NVARCHAR);

PRINT 'Average Score from ' + @Sector + ':' + CAST(@AvgAmount AS NVARCHAR);

SELECT COUNT(Brand) TotalBrand,

SUM(AmoutAsked) TotalAmount

FROM Shark

WHERE Sector = @Sector;

END

GO

EXEC GetFoodAmount @Sector ='Automobile'

Error AHndling –

Example –

ALTER PROCEDURE GetFoodAmount @Sector NVARCHAR(50)

AS

BEGIN

BEGIN TRY

DECLARE @TotalBrands INT, @AvgAmount FLOAT;

--Cleaning up

IF EXISTS(SELECT 1 FROM Shark WHERE AmountInvestedlakhs IS NULL AND Sector = @Sector)

BEGIN

PRINT 'Updateing null to zero';

UPDATE Shark

SET AmountInvestedlakhs = 0

WHERE AmountInvestedlakhs IS NULL AND Sector = @Sector;

END

ELSE

BEGIN

PRINT 'No nulls'

END;

--Prepare Reports

SELECT @TotalBrands = COUNT(Brand),

@AvgAmount = AVG(AmountInvestedlakhs)

FROM Shark

WHERE Sector = @Sector;

PRINT 'Total Brand came from ' + @Sector + ':' + CAST(@TotalBrands AS NVARCHAR);

PRINT 'Average Score from ' + @Sector + ':' + CAST(@AvgAmount AS NVARCHAR);

SELECT COUNT(Brand) TotalBrand,

SUM(AmoutAsked) TotalAmount,

1/0

FROM Shark

WHERE Sector = @Sector;

END TRY

BEGIN CATCH

PRINT 'An error occurred';

PRINT 'Error message ' + ERROR\_MESSAGE();

PRINT 'Error number ' + CAST(ERROR\_NUMBER() AS NVARCHAR);

PRINT 'Error line ' + CAST(ERROR\_LINE() AS NVARCHAR);

PRINT 'Error Procedure ' + ERROR\_PROCEDURE();

END CATCH

END

GO

EXEC GetFoodAmount @Sector ='Automobile'

Styling –

ALTER PROCEDURE GetFoodAmount @Sector NVARCHAR(50)

AS

BEGIN

BEGIN TRY

DECLARE @TotalBrands INT, @AvgAmount FLOAT;

--Cleaning up

IF EXISTS(SELECT 1 FROM Shark WHERE AmountInvestedlakhs IS NULL AND Sector = @Sector)

BEGIN

PRINT 'Updateing null to zero';

UPDATE Shark

SET AmountInvestedlakhs = 0

WHERE AmountInvestedlakhs IS NULL AND Sector = @Sector;

END

ELSE

BEGIN

PRINT 'No nulls'

END;

--Prepare Reports

SELECT @TotalBrands = COUNT(Brand),

@AvgAmount = AVG(AmountInvestedlakhs)

FROM Shark

WHERE Sector = @Sector;

PRINT 'Total Brand came from ' + @Sector + ':' + CAST(@TotalBrands AS NVARCHAR);

PRINT 'Average Score from ' + @Sector + ':' + CAST(@AvgAmount AS NVARCHAR);

SELECT COUNT(Brand) TotalBrand,

SUM(AmoutAsked) TotalAmount,

1/0

FROM Shark

WHERE Sector = @Sector;

END TRY

BEGIN CATCH

PRINT 'An error occurred';

PRINT 'Error message ' + ERROR\_MESSAGE();

PRINT 'Error number ' + CAST(ERROR\_NUMBER() AS NVARCHAR);

PRINT 'Error line ' + CAST(ERROR\_LINE() AS NVARCHAR);

PRINT 'Error Procedure ' + ERROR\_PROCEDURE();

END CATCH

END

GO

EXEC GetFoodAmount @Sector ='Automobile'