

T-SQL Stored Procedures

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Stored Procedures

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Create Stored Procedure

Create Procedure Example:

Customers Table

CUSTOMER_ID	CUSTOMER_NAME	CUSTOMER_TYPE
1	CUSTOMER_1	CC
2	CUSTOMER_2	I
3	CUSTOMER_3	SM
4	CUSTOMER_4	CC

Contracts Table

CONTRACT_ID	CUSTOMER_ID	AMOUNT
1	1	400
2	2	500
3	3	700
4	1	1000
5	2	1200
6	4	900
7	3	2000
8	2	1500

```

CREATE PROCEDURE SalesByCustomer
@CustomerName nvarchar(50)
AS
SELECT c.customer_name, sum(ctr.amount) AS TotalAmount
FROM customers c, contracts ctr
WHERE c.customer_id = ctr.customer_id
AND c.customer_name = @CustomerName
GROUP BY c.customer_name
ORDER BY c.customer_name
GO

```

```

EXEC SalesByCustomer 'CUSTOMER_1'
GO

```

Customer_Name	TotalAmount
CUSTOMER_1	1400

Create Function

1. Create Function Example

```

CREATE FUNCTION CtrAmount ( @Ctr_Id int(10) )
RETURNS MONEY
AS
BEGIN
DECLARE @CtrPrice MONEY
SELECT @CtrPrice = SUM(amount)
FROM Contracts
WHERE contract_id = @Ctr_Id
RETURN(@CtrPrice)
END
GO

```

```

SELECT * FROM CtrAmount(345)
GO

```

2. Create Function Example

```

CREATE FUNCTION function_name (@PRODUCT_ID Int)
RETURNS @ProductsList Table
(Product_Id Int,
Product_Dsp nvarchar(150),
Product_Price Money )
AS
BEGIN
IF @PRODUCT_ID IS NULL
BEGIN
INSERT INTO @ProductsList (Product_Id, Product_Dsp, Product_Price)
SELECT Product_Id, Product_Dsp, Product_Price
FROM Products
END
ELSE
BEGIN
INSERT INTO @ProductsList (Product_Id, Product_Dsp, Product_Price)
SELECT Product_Id, Product_Dsp, Product_Price
FROM Products
WHERE Product_Id = @PRODUCT_ID
END
RETURN
END
GO

```

Call Stored Procedure

Call Stored Procedure Example:

```

EXEC SalesByCustomer 'CUSTOMER_1'
GO

```

Execute procedure in 20 minutes

```

BEGIN
WAITFOR DELAY "0:20:00"
EXEC SalesByCustomer 'CUSTOMER_1'
END

```

Drop Stored Procedure

Drop Stored Procedure Syntax:

```
DROP PROCEDURE stored_procedure_name
```

Drop Stored Procedure Example:

```
DROP PROCEDURE SalesByCustomer  
GO
```

Rename Stored Procedure

Rename Stored Procedure Syntax:

```
sp_rename 'old_procedure_name', 'new_procedure_name'
```

Rename Stored Procedure Example:

```
EXEC sp_rename 'SalesByCustomer', 'NewSalesByCustomer';  
GO
```

Resources:

www.tsql.info/stored-procedures/stored-procedures.php