T-SQL Stored Procedures

www.tsql.info

Stored Procedures
Create Procedure
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Rename Stored Procedure

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

<table>
<thead>
<tr>
<th>Customer_Name</th>
<th>TotalAmount</th>
</tr>
</thead>
<tbody>
<tr>
<td>CUSTOMER_1</td>
<td>1400</td>
</tr>
</tbody>
</table>

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
```