

Stored Procedure

```
CREATE OR ALTER PROCEDURE
dbo.usp_Name(@param)
AS
BEGIN
    SET NOCOUNT ON;
    SET XACT_ABORT ON;
    BEGIN TRANSACTION
    COMMIT
    SET XACT_ABORT OFF;
    SET NOCOUNT OFF;
END
```

Add not null column to existing table

```
IF NOT EXISTS(SELECT 1 FROM
sys.columns WHERE Name =
N'MyNewColumn' AND Object_ID =
Object_ID(N'[dbo].[MyTable]'))
BEGIN
ALTER TABLE MyTable
    ADD MyNewColumn
INT NOT NULL DEFAULT 0
END
```

drop column

```
ALTER TABLE table_name
DROP COLUMN column_name;
```

Detect duplicate

```
SELECT *, ROW_NUMBER()
OVER(PARTITION BY TenantId ORDER
BY Id) from dbo.[Test] WHERE
[Name] is null
```

Check Exists

```
IF [NOT] EXISTS ( SELECT 1 FROM
MyTable WHERE ... )
    <do smth>
IF NOT EXISTS ( SELECT 1 FROM
Users WHERE FirstName = 'John'
AND LastName = 'Smith' )
BEGIN
    INSERT INTO Users
(First Name, LastName) VALUES
('John', 'Smith')
END
```

Drop temp table

```
DROP TABLE IF EXISTS #Results
```

If else

```
IF Boolean_expression
    { sql_statement |
statement_block }
[ ELSE
    { sql_statement |
statement_block } ]
```

Merge

```
MERGE <target_table> AS tgt
USING <table_source> AS src
ON <merge_source_condition>
    WHEN MATCHED THEN <merge_match>
    WHEN NOT MATCHED [ BY TARGET ]
    THEN <merge_no_target>
    WHEN NOT MATCHED BY SOURCE THEN
    <merge_matched>
MERGE ProductUnitMeasure
AS tgt
USING (SELECT @UnitMeasureCode, @Name) as src (UnitMeasureCode, Name)
ON (tgt.UnitMeasureCode =
src.UnitMeasureCode)
WHEN MATCHED THEN
UPDATE SET Name = src.Name
WHEN NOT MATCHED THEN
INSERT (UnitMeasureCode,
Name)
VALUES (src.UnitMeasureCode,
src.Name)
```

Inline Table-Valued Function

```
CREATE [ OR ALTER ] FUNCTION
<function_name> (<parameters>)
RETURNS TABLE
AS
RETURN
(
    <select_statement>
);
```

Multi-Statement Table-Valued Function

Check if table is existed (Using OBJECT_ID)

```
IF OBJECT_ID(N'dbo.
<table_name>', N'U') IS NOT NULL
BEGIN
    PRINT 1
END
```

add foreign key

```
CREATE TABLE <schema>.
<table_name>
(
    <column_name> int
NOT NULL
    , CONSTRAINT FK_<table_name>_<reference_table_name> FOREIGN KEY (<column_name>)
REFERENCES
<reference_table_name>
(<reference_column_name>)
[ON DELETE
CASCADE]
[ON UPDATE
CASCADE]
)
```

add primary key

```
CREATE TABLE <schema>.
<table_name> (
    <column_name> int
IDENTITY (1,1) NOT NULL
    , CONSTRAINT PK_<table_name>_<column_name>
PRIMARY KEY CLUSTERED (<column_name>)
)
```

create unique constraint

```
CREATE [ OR ALTER ] FUNCTION
<function_name> ([ parameter ])
RETURNS @return_variable TABLE
<table_type_definition>
BEGIN
    <function_body>
RETURN
END
```

```
CREATE TABLE <table_name>
(
    <column_name> int NOT
NULL,
    CONSTRAINT UC_<column_
n_name> UNIQUE (<column_
name>)
)
ALTER TABLE table_name
ADD CONSTRAINT constraint_name
UNIQUE (column1, column2, ...
column_n);
```

create index

```
CREATE TABLE <schema_name>.
<table_name>
(
    INDEX IX_<table_name>_
_<column_name> NONCLU -
STERED (<column_name>)
)
```

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By **giangpdh**

cheatography.com/giangpdh/

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