1 Stored Procedures

stored procedure (SP) - sql code that can be run multiple times with different params types of SPs:

- user defined
- temporary tempdb
- system

```
02 | AS <sql statement>
03 | <RETURN ...> -- optional
    EXEC <pname> < @parname = parval, ...>
    EXEC @val = <pname> <params>
    SET NOCOUNT ON -- wont show how many rows affected
09
10 |
    @param type OUTPUT -- in create
    @param OUTPUT -- in EXEC, @param should be declared with same type
13 l
    SET ANSI_NULLS ON -- NULL comparisons always return NULL(as it is intended)
    SET QUOTED_IDENTIFIER ON -- allows to use quotes same way as brackets, otherwise thay are same as apostrophes
15 I
    ALTER PROCEDURE 
    AS <statement>
17 |
18 I
19 l
    DROP PROCEDURE 
20 |
    IF OBJECT_ID ('<pname>', 'P') IS NOT NULL
21 l
        DROP PROCEDURE 
22
23 I
    EXEC sp_rename '<old pname>', '<new pname>'
25 |
    sp_help -- info about db objs
26 |
27 |
    -- if # before <pname> it is a local temporary proc
    -- if ## it is global temp proc
30 |
```

2 computed columns

Computed column is column that aggregates existing columns, so it can't be SET, but can be SELECTed

3 partitions

```
O1 | CREATE PARTITION FUNCTION <pfname > (<input param type >)
O2 | AS RANGE <LEFT | RIGHT > FOR VALUES(<boundary vals >)
O3 | -- LEFT | RIGHT is optional
O4 | -- boundary vals are optional
O5 |
O6 | CREATE PARTITION SCHEME <psname >
O7 | AS PARTITION <pfname > TO (<filegroups >)
O8 |
```

4 geography and geometry types

https://www.sqlshack.com/spatial-data-types-in-sql-server/