

Microsoft SQL Server 2019

Design & Develop



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SET

	Object	Temporary
Physical	Table	Temporary Table
		Table Variable
		Table Data Type
Virtual = Table Expression = Named Query	View	Common Table Expression (CTE)
	Inline Table Valued Function (Inline TVF)	Derived Table (Set Sub Query)

Table Expression



-
- All Table Expressions must have name
 - Table Expressions names must be unique
 - All Columns must have name
 - Column names must be unique
 - ORDER BY Clause is not acceptable
 - Unless using TOP/ OFFSET-FETCH

VIEW



-
- Permanent Object
 - Reusable
 - SELECT Statement
 - Saved Query

VIEW

تمرین

Quarters	2011	2012	2013	2014
Q1	NULL	8,422,528.06	7,822,266.46	12,869,035.57
Q2	962,716.74	8,976,618.52	11,018,489.70	7,225,793.94
Q3	5,044,703.94	9,060,261.54	12,887,492.04	NULL
Q4	6,638,691.47	7,251,488.82	12,193,802.51	NULL

Inline Table-Valued Function (TVF)



- Permanent Object
- Reusable
- SELECT Statement
- Saved Query
- Parameterized

Common Table Expression (CTE)



- SELECT Statement
- Temporary
 - Available to the statement that defines them
- Multiple CTE
- Multiple Reference
 - Has access to previous CTEs

Derived Table (Set Based Sub Query)



- Temporary
 - Available just for main query
- SELECT Statement
- Column Aliasing
 - Inline
 - External