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| **Trigger** | **Stored Procedure** |
| **Automatically runs in response to certain events (like INSERT, UPDATE, DELETE) on a table.** | **A reusable set of SQL statements that can be executed on demand. Requires explicit execution.** |

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| **Stored Procedure** | **Functions** |
| **It can perform actions (like modifying data) and doesn't return a value directly. It can return multiple result sets.** | **Must return a single value or a table and cannot modify data directly. Designed to be called within SQL expressions.** |

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| **DROP** | **DELETE** |
| **Remove the table or database completely. All data and structure are lost.** | **Removes specific rows from a table based on a condition but keeps the table structure intact.** |

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| **SELECT** | **SELECT INTO Statement** |
| **Remove the table or database completely. All data and structure are lost.** | **Removes specific rows from a table based on a condition but keeps the table structure intact.** |

* **DDL (Data Definition Language)**: Commands that define the structure (e.g., CREATE, ALTER, DROP).
* **DML (Data Manipulation Language)**: Commands for manipulating data (e.g., INSERT, UPDATE, DELETE).
* **DCL (Data Control Language)**: Commands for controlling access (e.g., GRANT, REVOKE).
* **DQL (Data Query Language)**: Commands for querying data (e.g., SELECT).

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| **Table-Valued** | **Multi-Statement Function** |
| **Returns a table that can be used in queries. It can only contain a single SELECT statement.** | **Can contain multiple SQL statements and return a single result set but must be used differently in queries.** |

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| **VARCHAR (50)** | **VARCHAR(MAX)** |
| **A variable-length string that can hold up to 50 characters.** | **Can hold up to 2 GB of data, useful for larger strings.** |

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| **SQL** | **Windows Authentication** |
| **Uses a username and password stored in SQL Server.** | **Uses Windows accounts to log in, relying on Windows security.** |

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| **Inline Function** | **View** |
| **A user-defined function that returns a single table. Can accept parameters and can be used in SELECT statements.** | **A virtual table representing a stored query. Doesn’t accept parameters but can simplify complex queries** |

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| **Identity** | **Unique Constraint** |
| **Automatically generates a unique value for a column (usually a primary key) each time a new row is added.** | **Ensures all values in a column (or combination of columns) are unique, but values can be specified manually.** |