

# What is SQL

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# SQL

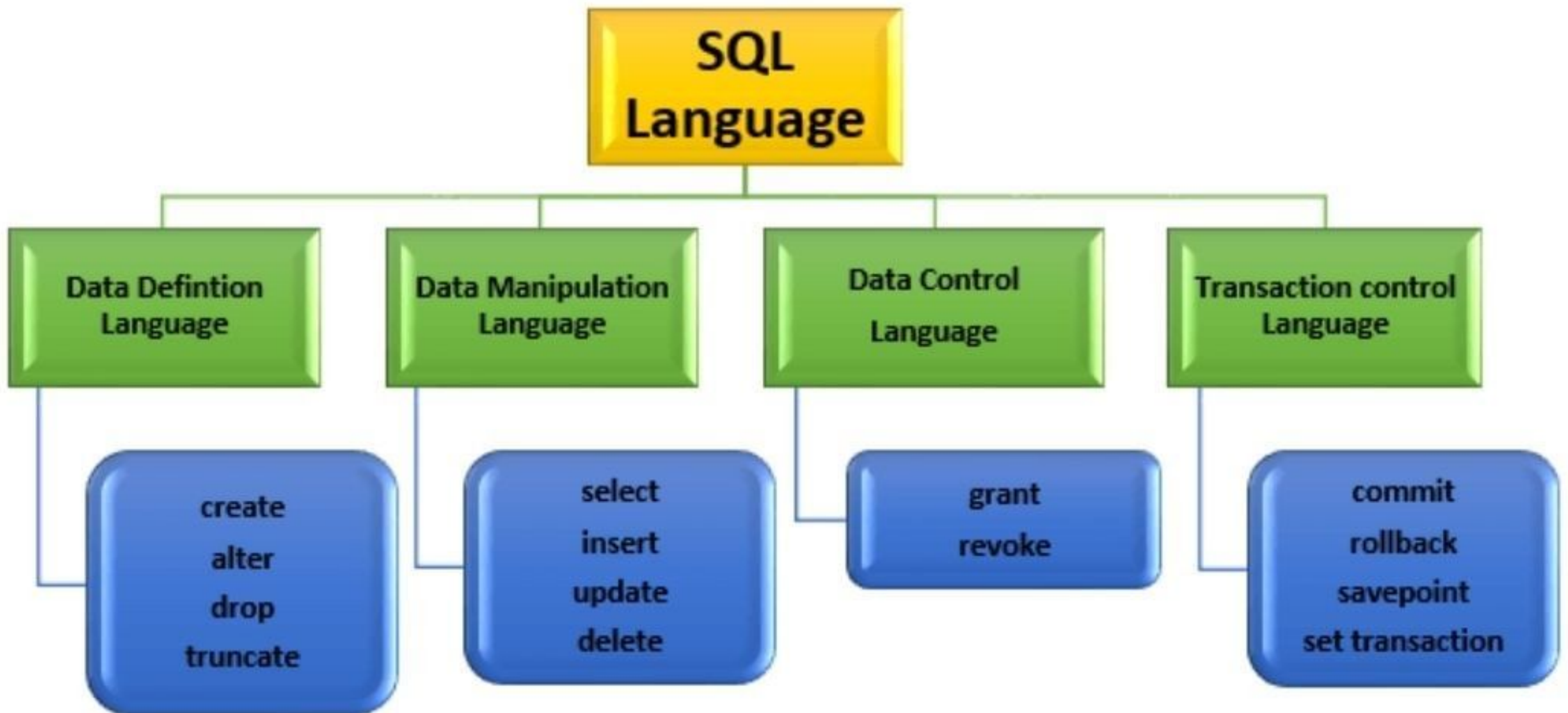
**Structured** Query Language (SQL) is a standardized programming language that is used to manage **relational** databases and perform various operations such as Create, **Insert**, Update, Delete.

# Types of SQL Statements

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- Data Definition Language (DDL)
- Data Manipulation Language (DML)
- Data Control Language (DCL)
- Transaction Control Language (TCL)
- Data Query Language (DQL)





# DDL

- Create :** Creates a new table, a view of a table, or other object in the database.
- ALTER :** Modifies an existing database object, such as a table.
- DROP :** Deletes an entire table, a view of a table or other objects in the database.
- Truncate :** Deletes the data inside a table, but not the table itself.

# DML

**SELECT :** Retrieves certain records from one or more tables.

**INSERT :** Creates a record.

**UPDATE :** Modifies records.

**DELETE :** Deletes records.



# DCL

**GRANT :** Gives a privilege to user.

**REVOKE :** Takes back privileges granted from user.





# TCL

- COMMIT :** COMMIT command is used to permanently save any transaction into the database.
- ROLLBACK :** ROLLBACK command restores database to original since the last COMMIT.
- SAVEPOINT :** SAVEPOINT command is used for saving all the current point in the processing of a transaction.







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