

SCUL Commands:

A Complete Guide

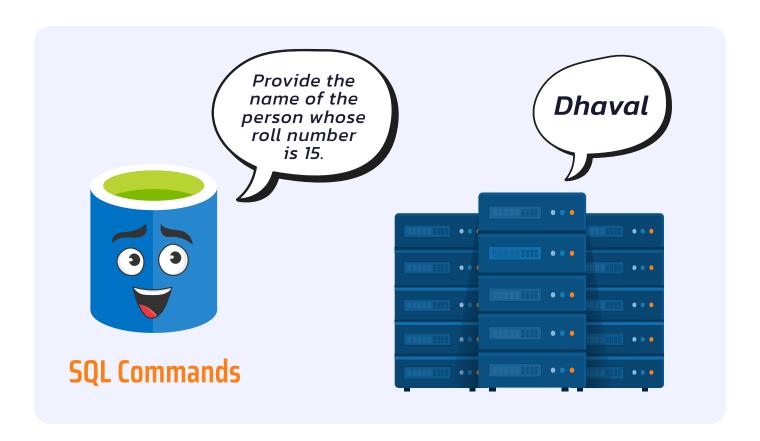


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Structured query language (SQL) is a programming language for storing and processing information in a relational database.

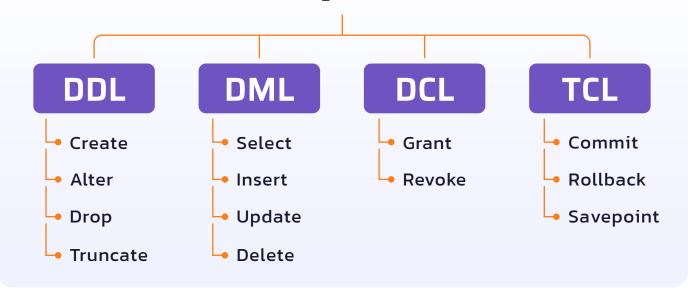
In general, "Command" is an instruction given to a system or person to perform a specific task or function.

SQL commands are instructions used to communicate with a database to perform tasks, queries, and modifications to database data.



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TYPES OF SQL COMMANDS



1 DDL COMMANDS:

- DDL stands for Data Definition Language.
- ▶ DDL Commands are used to define, modify, and delete the structure of database objects like tables, indexes, views, and schemas.



CREATE:

This command is used to create new objects in the database.

Syntax:

CREATE TABLE table_name (column1 datatype, column2 datatype, ...);

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ALTER:

This command is used to alter the structure of the database.

Adding a Column to a Table

Syntax:

```
ALTER TABLE table_name
ADD column_name datatype(size);
```

Modifying the Data Type of a Column

Syntax:

```
ALTER TABLE table_name
MODIFY column_name datatype(size);
```

Dropping a Column from a Table

Syntax:

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

Renaming the existing table's column

Syntax:

```
ALTER TABLE table_name
RENAME COLUMN old_column_name TO new_column_name;
```

TRUNCATE:

Removes all records from a table without deleting the table structure.

Syntax:

TRUNCATE TABLE table_name;

DROP:

Deletes an entire table and its data.

Syntax:

DROP TABLE table_name;

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2 DML COMMANDS:

- ▶ DML stands for **Data Manipulation Language**.
- DML commands are used for managing data within tables.
- ► They facilitate CRUD operations: creating, reading, updating, and deleting data, using INSERT, SELECT, UPDATE, and DELETE commands, respectively.









INSERT:

Inserts new data into a table.

Syntax:

INSERT INTO table_name (column1, column2) VALUES (value1, value2);

SELECT:

Retrieves data from one or more tables.

Syntax:

SELECT column1, column2 FROM table_name;

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UPDATE:

Modifies existing data in a table.

Syntax:

UPDATE table_name SET column1 = value1 WHERE condition;

DELETE:

Removes data from a table based on a condition.

Syntax:

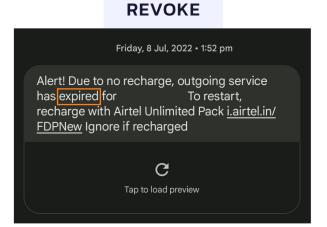
DELETE FROM table_name WHERE condition;

3 DCL COMMANDS:

- DCL stands for Data Control Language.
- DCL Commands are used to grant and revoke user access to database resources.

Monday, 26 Feb • 7:49 pm Recharge of INR 65.00 is successful for your Airtel Mobile on 26-02-2024 19:48, Transaction ID Check your balance, validity, tariff and best recharges on Airtel Thanks App. Would you like to refer Airtel Prepaid to your friends & family and save Rs100 on your next recharge? Click i.airtel.in/ref

GRANT



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GRANT:

It is used to give user access privileges to a database.

Syntax:

GRANT <privilege_name> [ON <object_name>] TO <grantee> [WITH
GRANT OPTION];

REVOKE:

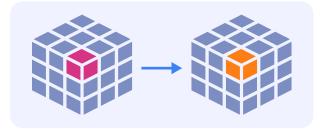
It is used to give take-back access privileges from the user.

Syntax:

REVOKE <privilege_name> [ON <object_name>] FROM <grantee> [CASCADE | RESTRICT];

4 TCL COMMANDS:

- ► TCL stands for **Transaction Control Language**.
- ▶ TCL Commands are used to manage changes made by DML operations.











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COMMIT:

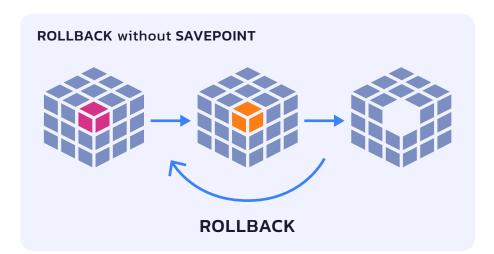
It is used to save all changes made during the current transaction.

Syntax: COMMIT;

ROLLBACK:

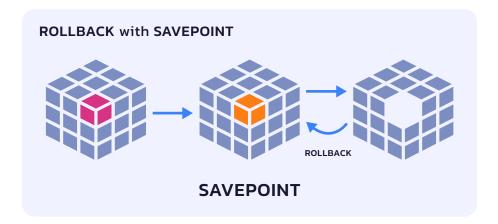
It is used to revert changes made during the current transaction.

Syntax: ROLLBACK;











SAVAPOINT:

It is used to save the different parts of the same transaction using different names.

Syntax: SAVEPOINT savepoint_name;



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