Data Definition Language (DDL)

Data Definition Language

- [SQL's syntax](#)

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  comprises several types of statements that allow you to perform various commands and operations

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- **the CREATE statement**

Data Definition Language

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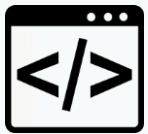
- **the CREATE statement**

  used for creating entire databases and database objects as tables

Data Definition Language

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  used for creating entire databases and database objects as tables

SQL

```
CREATE object_type object_name;
```

Data Definition Language

- **the CREATE statement**

  used for creating entire databases and database objects as tables

```
CREATE object_type object_name;

CREATE TABLE object_name (column_name data_type);
```

SQL

Data Definition Language

`CREATE TABLE object_name (column_name data_type);`

SQL

Data Definition Language

CREATE TABLE object_name (column_name data_type);

CREATE TABLE sales (purchase_number INT);

SQL

Data Definition Language

CREATE TABLE object_name (column_name data_type);

CREATE TABLE sales (purchase_number INT);

sales

purchase_number

Data Definition Language

SQL

CREATE TABLE sales (purchase_number INT);

sales

purchase_number

the table name can coincide with the name assigned to the database

Data Definition Language

- [the ALTER statement](#)

Data Definition Language

- ## the ALTER statement

  used when altering existing objects

Data Definition Language

- **the ALTER statement**

  used when altering existing objects

- - ADD

- - REMOVE

- - RENAME

Data Definition Language

sales

purchase_number

Data Definition Language

SQL

```
ALTER TABLE sales

ADD COLUMN date_of_purchase DATE;
```

sales

purchase_number

Data Definition Language

SQL

ALTER TABLE sales

ADD COLUMN date_of_purchase DATE;

sales

purchase_number	date_of_purchase

Data Definition Language

- [the DROP statement](#)

Data Definition Language

- **the DROP statement**

  used for deleting a database object

Data Definition Language

SQL

`DROP object_type object_name;`

customers

customer_id	first_name

Data Definition Language

SQL

DROP object_type object_name;

DROP TABLE customers;

customers

customer_id	first_name

Data Definition Language

SQL

DROP object_type object_name;

DROP TABLE customers;

customers

customer_id	first_name

Data Definition Language

- [the RENAME statement](#)

Data Definition Language

- **the RENAME statement**

  allows you to rename an object

Data Definition Language

```sql
RENAME object_type object_name TO new_object_name;
```

customers

customer_id	first_name

Data Definition Language

```
RENAME object_type object_name TO new_object_name;

RENAME TABLE customers TO customer_data;
```

SQL

customers

customer_id	first_name

Data Definition Language

used for deleting a database object

```
RENAME object_type object_name TO new_object_name;

RENAME TABLE customers TO customer_data;
```

customer_id	first_name

SQL

Data Definition Language

RENAME object_type object_name TO new_object_name;

RENAME TABLE customers TO customer_data;

SQL

customer_data

customer_id	first_name

Data Definition Language

- [the TRUNCATE statement](#)

Data Definition Language

- **the TRUNCATE statement**

  instead of deleting an entire table through DROP, we can also remove its data and continue to have the table as an object in the database

Data Definition Language

```
TRUNCATE object_type object_name;
```

SQL

customers

customer_id	first_name

Data Definition Language

SQL

TRUNCATE object_type object_name;

TRUNCATE TABLE customers;

customers

customer_id	first_name

Data Definition Language

SQL

TRUNCATE object_type object_name;

TRUNCATE TABLE customers;

customers

customer_id	first_name

Data Definition Language

- [Data Definition Language (DDL)](#)

Data Definition Language

Data Definition Language (DDL)

- CREATE

- ALTER

- DROP

- RENAME

- TRUNCATE

Next:

Next:

Keywords

Next:

Keywords

Data Manipulation Language