SQL Theory

Data Definition Language (DDL)

Data Definition Language

- **SQL's syntax**

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Data Definition Language

- **SQL's syntax**

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

Data Definition Language

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Data Definition Language

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  - a set of statements that allow the user to define or modify data structures and objects, such as tables

Data Definition Language

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Data Definition Language

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- ### the CREATE statement

  used for creating entire databases and database objects as tables

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Data Definition Language

- **<u>the CREATE statement</u>**

  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

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Data Definition Language

SQL

```
CREATE TABLE object_name (column_name data_type);
```

Data Definition Language

```sql
CREATE TABLE object_name (column_name data_type);

CREATE TABLE sales (purchase_number INT);
```

SQL

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Data Definition Language

SQL

CREATE TABLE object_name (column_name data_type);

CREATE TABLE sales (purchase_number INT);

sales

purchase_number

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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

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Data Definition Language

- **the ALTER statement**

  used when altering existing objects

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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

SQL

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Data Definition Language

- the DROP statement

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Data Definition Language

- **the DROP statement**

  used for deleting a database object

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Data Definition Language

SQL

`DROP object_type object_name;`

customers

customer_id	first_name

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Data Definition Language

used for deleting a database object

SQL

```
DROP object_type object_name;
```

```
DROP TABLE customers;
```

customers

customer_id	first_name

Data Definition Language

used for deleting a database object

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

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Data Definition Language

SQL

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

customers

customer_id	first_name

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Data Definition Language

```
RENAME object_type object_name TO new_object_name;

RENAME TABLE customers TO customer_data;
```

customers

customer_id	first_name

SQL

Data Definition Language

RENAME object_type object_name TO new_object_name;

RENAME TABLE customers TO customer_data;

customer_id	first_name

SQL

Data Definition Language

SQL

RENAME object_type object_name TO new_object_name;

RENAME TABLE customers TO customer_data;

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

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Data Definition Language

SQL

```
TRUNCATE object_type object_name;
```

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)](#)

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Data Definition Language

Data Definition Language (DDL)

- CREATE
- ALTER
- DROP
- RENAME
- TRUNCATE

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Next:

Next:

Keywords

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Next:

Keywords

Data Manipulation Language

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