Data Definition Language (DDL)

Data Definition Language

- SQL's syntax

Data Definition Language

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

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Data Definition Language (DDL)

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

- **the CREATE statement**

Data Definition Language

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

- **Data Definition Language (DDL)**

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

- **the CREATE statement**

  used for creating entire databases and database objects as tables

Data Definition Language

the CREATE statement

used for creating entire databases and database objects as tables


```
CREATE object_type object_name;
```

Data Definition Language

the CREATE statement

used for creating entire databases and database objects as tables

SQL

```
CREATE object_type object_name;

CREATE TABLE object_name (column_name data_type);
```

Data Definition Language


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

Data Definition Language

SQL

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

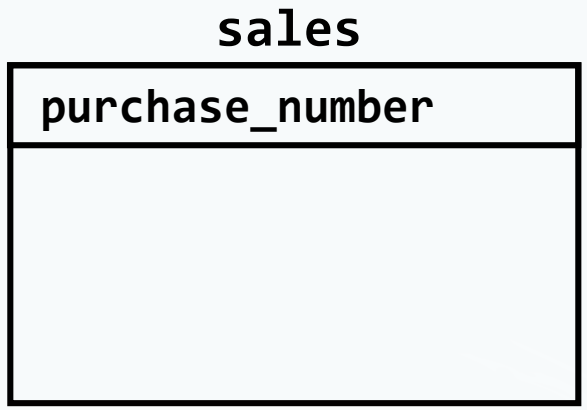
```
CREATE TABLE sales (purchase_number INT);
```

Data Definition Language

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

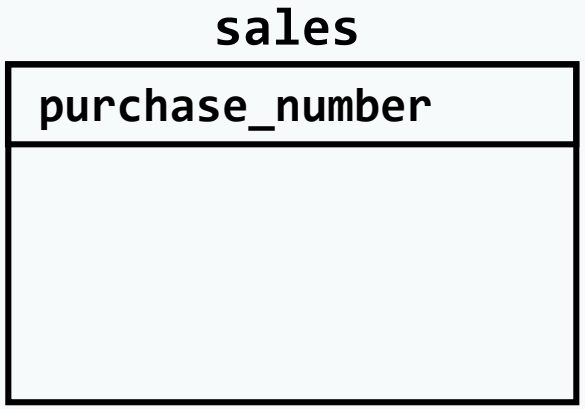
SQL

```
CREATE TABLE sales (purchase_number INT);
```



Data Definition Language


```
CREATE TABLE sales (purchase_number INT);
```



- 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

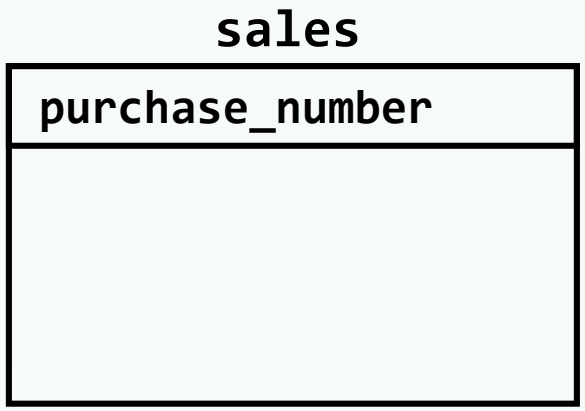
Data Definition Language

- **the ALTER statement**

  used when altering existing objects

- ADD
- REMOVE
- RENAME

Data Definition Language



Data Definition Language


```
ALTER TABLE sales
ADD COLUMN date_of_purchase DATE;
```

sales

purchase_number

Data Definition Language


```
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


```
DROP object_type object_name;
```

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

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

Data Definition Language


```
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;
```

customers

customer_id	first_name

Data Definition Language


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

```
RENAME TABLE customers TO customer_data;
```

customer_id	first_name

Data Definition Language


```
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

Data Definition Language


```
TRUNCATE object_type object_name;
```

customers

customer_id	first_name

Data Definition Language


```
TRUNCATE object_type object_name;
```

```
TRUNCATE TABLE customers;
```

customers

customer_id	first_name

Data Definition Language


```
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