Jedha

What is a TABLE?

A TABLE

ID	First name	Name	Email	Phone
1	Jean	Valjean	jvaljean@gmail.com	0666349392
2	Victor	Hugo	hugobg@gmail.com	0669456789
3	Cécile	From France	cdf@yahoo.fr	0617589022
4	Michel	Delpeche	michou@hotmail.com	0677559900
5	Octave	Parango	99franc@me.com	0669696969
6	Dark	Vader	jesuistonpere@outlook.com	0666666666

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A column

ID	First name	Name	Email	Phone
1	Jean	Valjean	jvaljean@gmail.com	0666349392
2	Victor	Hugo	hugobg@gmail.com	0669456789
3	Cécile	From France	cdf@yahoo.fr	0617589022
4	Michel	Delpeche	michou@hotmail.com	0677559900
5	Octave	Parango	99franc@me.com	0669696969
6	Dark	Vader	jesuistonpere@outlook.com	0666666666

The different types of data

- INTEGER

- FLOAT / REAL

- TEXT

- DATETIME

- NULL

A line

ID	First name	Name	Email	Phone
1	Jean	Valjean	jvaljean@gmail.com	0666349392
2	Victor	Hugo	hugobg@gmail.com	0669456789
3	Cécile	From France	cdf@yahoo.fr	0617589022
4	Michel	Delpeche	michou@hotmail.com	0677559900
5	Octave	Parango	99franc@me.com	0669696969
6	Dark	Vader	jesuistonpere@outlook.com	0666666666

Schema

Client_ID	First name	Name	Email	Product_ID
1	Jean	Valjean	jvaljean@gmail.com	1
2	Victor	Hugo	hugobg@gmail.com	1
3	Cécile	From France	cdf@yahoo.fr	3
4	Michel	Delpeche	michou@hotmail.com	2
5	Octave	Parango	99franc@me.com	5
6	Dark	Vader	jesuistonpere@outlook.com	6

Product_ID	purchased item	Revenues
1	Apples	15
2	Pears	20
3	Bananas	10
4	Hazelnuts	8
5	Mangoes	25
6	Watermelons	12

Jedha

What is SQL?

Relational Database Management System

Why use databases?

— **Speed**

— **Regularity**

— **Simple analytics**

— **Dynamic Content**

— **Replicability**

Jedha

Google Cloud Platform & MySQL

Setup

- Go to: https://bit.ly/2svkxll

- Open Cloud Shell

- Type
  - gcloud sql connect introductiontosql --user=student_1
  - mdp: jedha4ever

Jedha

Create a database in your name

- **CREATE DATABASE fullName ;**

- **USE fullName ;**

Tips before you start

- Just like in natural language, programming syntax is important. **Don't forget commas, semicolons and so on, otherwise your code won't work.**

- Spaces don't matter in SQL

Jedha

CREATE TABLE

```sql
CREATE TABLE table_name (
    column_name_1 data_type,
    column_name_2 data_type,
    column_name_3 data_type
);
```

```
CREATE TABLE food_trucks (
    id INTEGER,
    name TEXT,
    rating REAL,
    food_type TEXT
);
```

INSERT INTO

```sql
INSERT INTO food_trucks
    (id, name, rating, food_type)
VALUES
    (1, Camion qui fume', 4.5, 'Burgers' );
```

```sql
INSERT INTO food_trucks
    (id, name, rating, food_type)
VALUES
    (2, 'Chairman Bao', 4.7, 'Chinese' ),
    (3, 'Curry Up Now', 4.2, 'Indian Fusion' ),
    (4, 'El Tonayense', 4.6, 'Mexican' );
```

SELECT FROM

— **SELECT name from food_trucks;**

— **SELECT * FROM food_trucks;**

— **SELECT name, rating FROM food_trucks;**

UPDATE

```sql
UPDATE food_trucks
SET rating = 0;
```

```sql
UPDATE food_trucks
SET rating = 5
WHERE id = 3;
```

ALTER TABLE

```sql
ALTER TABLE food_trucks
ADD COLUMN twitter_handle TEXT;
```

```sql
ALTER TABLE food_trucks
DROP COLUMN twitter_handle;
```

DELETE FROM

```
DELETE FROM food_trucks
WHERE twitter_handle IS NULL;
```

2-A **Introduction to SQL**

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Any questions?

Jedha