

Vampire Unicorns - Week 6

Theoretical

Explain how to get a unique list of rows in a SELECT statement

[Youssef Ashraf Sabry]

SQL SELECT queries help search for data in the database. However, when data is redundant and duplicate data filtration is needed, the DISTINCT keyword comes into hand. Using DISTINCT filters redundant data and shows unique data only.

```
-- SELECT DISTINCT <ColumnName> FROM <TableName>;  
  
SELECT DISTINCT product_category FROM products;
```

[Mohamed Atef Elsafty]

we can make it by using JOIN where:

A JOIN clause is used to combine rows from two or more tables, based on a related column between them.

ex:-

if we have two tables:

- first **sessions** table

| id | title | session_lead_id |
|----|------------|-----------------|
| 1 | javascript | 1 |
| 2 | typescript | 2 |

- second **session_leads** table

| id | name |
|----|----------------|
| 1 | Hossam Abubakr |
| 2 | Mohamed Ahmed |

and many to many relationship table called **studemts_sessions**

| id | student_id | session_id |
|----|------------|------------|
| 1 | 1 | 1 |
| 2 | 2 | 1 |
| 3 | 1 | 2 |

and we need to select the title of sessions table and the name of the session_lead table
we can use this statement

```
SELECT s.title, sl.name
      FROM sessions s
        JOIN studemts_sessions ss
          ON ss.session_id = s.id
        JOIN session_leads sl
          ON s.session_lead_id = sl.id;
```

in this statement we use JOIN that makes a join between sessions table and
studemts_sessions where session_id in studemts_sessions table equal to sessions id

and join between sessions table and session_leads table where session_lead_id in
sessions table equal to session_leads id

and the output will be:

| title | name |
|------------|----------------|
| javascript | Hossam Abubakr |
| javascript | Hossam Abubakr |
| typescript | Mohamed Ahmed |

Practical

Create the functionality to add a student to a session from scratch

[\[Youssef Ashraf Sabry\]](#)

[\[Mohamed Atef Safty\]](#)