Session 5 - September 30 - Query performance

In this session

- how PostgresSQL handles the execution of queries
- · analyze a query performance with EXPLAIN

EXPLAIN and query performance

Last time

We saw

- · normalizing the WorldHits database
- · window functions
- · simple CTEs

Today

- A lab on windows functions and CTEs (loosely graded) https://forms.gle/Y2i6ShyzQkVcpZzr6
- A look at how PostgresSQL optimizes queries
 - o query optimizer,
 - o cost functions,
 - algorithms
- EXPLAIN and EXPLAIN ANALYZE to analyze the performance of queries

Forgot

We can use row_number() to delete dups see https://blog.devgenius.io/10-postgresql-techniques-i-find-the-most-useful-1f98b5c7c38e

EOD

- · you can write CTEs and use window functions in your queries
- · you understand what makes a query efficient for the postgreSQL engine
- · you can interpret EXPLAIN query plans

Before we start

- if you have already cloned the repo, cd into the project directory and refresh it with git pull origin master
- if you haven't cloned the repo yet:

 git clone git@github.com:SkatAI/epitadb.git and cd epitadb
- · you can also download the repo as a zip file

Resources

a good post on PostgresSQL functions https://blog.devgenius.io/10-postgresql-techniques-i-find-the-most-useful-1f98b5c7c38e. A pdf version is on the github