Intro. to SQL

Basic Syntax and Filtering

2021-02-10







Sign in sheet

Sign in Here: https://tinyurl.com/9tm6022z

Important links

- o https://github.com/Davis-Data-Science-Club/SQL-workshop-1-aggretation-and-filtering
- https://mode.com

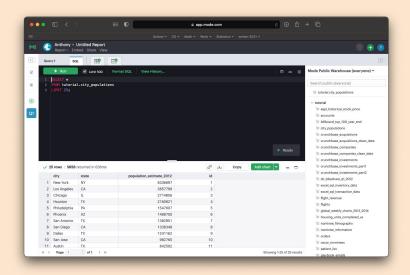


Agenda

- 1. Workshop Check In/Mode Sign Up
- 2. Github/Mode Introduction
- 3. General SQL Introduction
 - Syntax/Test Queries

Questions

- Build the query on your own
- Solve together/discussion

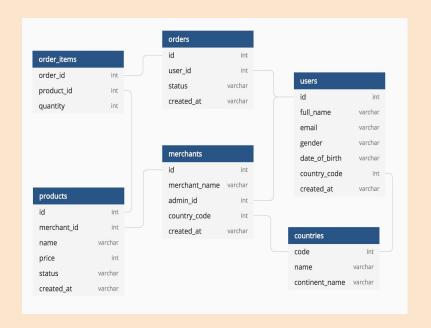


What is a Database?

- Scalable storage system
- SQL vs NoSQL
 - Relational
 - Not-relational, dynamic schema
- Usually hosted on a server
- Data is added multiple ways,
 - Manually
 - Forms
 - Website
- Schema map of your database
 - important to plan out ahead of time



Types of Databases



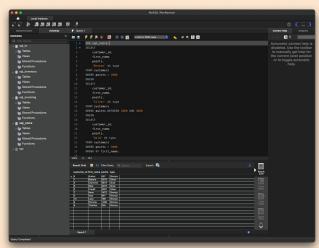
Relational - Tabular Data split across tables

```
Students Document
     id: "5373aadadcac133aad5b6660",
     name: "kaushal patel",
     email: "kp@example.com",
     courses: {
           course_name: "java",
           fees: "5000",
           duration: "3",
           professor: "g.r."
```

Non-Relational - Document
Related data contained in a single document

Hosting/Connecting to a Database

- Hosting services: MSFT SQL Server, Oracle's MySQL server, AWS Redshift
- Use an app such as SQLWorkbench, even the mode.com editor works.
- Log in through an IP address, port number, etc.
- Start writing your queries in a GUI
- Able to export data in multiple formats



Social Media

- Check us out on social media
 - Discord: https://discord.com/invite/TvEc7ca
 - Facebook: https://www.facebook.com/data.ucd/
 - Github: https://github.com/Davis-Data-Science-Club
 - Instagram: https://www.instagram.com/data.ucd/
- Next events:
 - o Alumni Talk
 - Workshop 2: My First Kaggle Competition
 - Workshop 3: SQL 2 Joins