FULL STACK/ FULL STACK JS, SQL FUNDAMENTALS

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Lecture 11, Week 11

LAST WEEK

- ❑ REACT FUNDAMENTALS
- ❑ VUE FUNDAMENTALS

TODAY

- ❑ FULL STACK/ FULL STACK JS
- ❑ SQL FUNDAMENTALS

FULL STACK/ FULL STACK JS

Full Stack Web Developer

A full stack web developer is a person who can develop both client and server software.

In addition to mastering HTML and CSS, he/she also knows how to:

- ❑ Program a browser (like using JavaScript, jQuery, Angular, or Vue)
- ❑ Program a server (like using PHP, ASP, Python, or Node)

- ❏ Program a database (like using SQL, SQLite, or MongoDB)

Popular Stacks

- ❏ LAMP stack: JavaScript - Linux - Apache - MySQL - PHP
- ❏ LEMP stack: JavaScript - Linux - Nginx - MySQL - PHP
- ❏ MEAN stack: JavaScript - MongoDB - Express - AngularJS - Node.js
- ❏ Django stack: JavaScript - Python - Django - MySQL
- ❏ Ruby on Rails: JavaScript - Ruby - SQLite - Rails

Full Stack JavaScript Developer

A full stack JavaScript developer is a person who can develop both client and server software.

In addition to mastering HTML and CSS, he/she also knows how to:

- ❏ Program a browser (like using JavaScript, jQuery, Angular, or Vue)
- ❏ Program a server (like using Node.js)
- ❏ Program a database (like using MongoDB)

SQL FUNDAMENTALS

- ❏ SQL is a standard language for storing, manipulating and retrieving data in databases.
- ❏ SQL stands for Structured Query Language.
- ❏ SQL is a standard language for accessing databases.

- ❏ SQL has been an international standard (ISO) since 1987.

SQL Statements

To access a database, you use SQL statements.

The following SQL statement selects all records in a database table called "Customers":

```
SELECT * FROM Customers;
```

Database Tables

A database most often contains one or more tables.

Each table is identified by a name like "Customers" or "Orders".

The Most Important SQL Statements:

- ❏ SELECT - extracts data from a database
- ❏ UPDATE - updates data in a database
- ❏ DELETE - deletes data from a database
- ❏ INSERT INTO - inserts new data into a database
- ❏ CREATE DATABASE - creates a new database
- ❏ ALTER DATABASE - modifies a database
- ❏ CREATE TABLE - creates a new table
- ❏ ALTER TABLE - modifies a table
- ❏ DROP TABLE - deletes a table
- ❏ CREATE INDEX - creates an index (search key)

- ❑ DROP INDEX - deletes an index

ASSIGNMENT

Design a database for the Restaurant Application you created in the previous class. Create the necessary database tables and add relevant columns to it, then populate your database with data.