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CSCI 331 FQD/ FQTN Notes

For our group presentation, my specific task was to describe the functionality of Fully Qualified Domains (FQDs) and Fully Qualified Table Names (FQTNs) within a taxonomy-based database design.

My responsibilities involved Slides 9-12. In Slides 9-12,
Slide 9:
The advantages of FQDs:
Enhancing data consistency
Enhancing data reusability
Enhancing data governance
via shared data standards

Slide 11: The move to FQTNs, demonstrating how locating data is no less important than its definition. "We know what a table name is. right?", which was where I used the WideWorldImporters database to demonstrate confusion between Sales.Customers and Application.People.

Slide 12: Structure of an FQTN (Database.Schema.Table), with real-world examples like "WideWorldImporters.Sales.Orders."

In an effort to make mine interesting, I included a comparison chart using data from 'WideWorldImporters', demonstrating similar table names across various schemas. In addition to that, analogies involving 'FQDs'- 'FQTNs'- 'address' (full data location).

As a result of this project, I found that "FQDs are reusable templates that enforce data rules," whereas "FQTNs are used to ensure semantic clarity by assigning a specific 'address' to each table." Finally, "taxonomies provide structure to databases," which makes them "scalable," and "shared domains improve data quality." I learned that combining FQDs and FQTNs inside a taxonomy allows databases to **scale**, because each domain and table is clearly defined and easily traceable.
Personally, I found this project really valuable because it connected **SQL syntax** to **real-world database design principles**. It showed me that behind every query is a much deeper structure that ensures clarity, consistency, and integrity — especially in enterprise environments.

During group discussions, I coordinated my part with Fahim and Yusuf to ensure my FQTN examples connected smoothly with their explanations of FQDs and Taxonomies.

https://www.f5.com/glossary/fully-qualified-domain-name-fqdn

https://www.microfocus.com/documentation/enterprise-developer/ed100/ED-VS2022/HRQRRHSQBA0Z.html