Caleb Stark, 5/26/2024

Assignment 1.3, Basic Comparison of Relational vs. NoSQL Databases

“In the context of relational databases, what are relationships?”

Relationships are how tables can relate to each other. Within a relational database you utilize keys to link different databases inserting the foreign key on one database that then can prompt a primary key in a different database. As an example lets say you have a table of employees and what they are trained on something like example 1-1. Now inside of that table you have a foreign key that is the employee id that id then could be used in a different table to pull up their personal information. This would not only make it clear what each table can be used for but also separation of information for different privilege levels. (Chapple, 2021)

Example 1-1 Example 1-2

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Name | Function Trained in | Employee ID |  | Employee ID | Full Name | Phone # |
| Lucas | Pulling | 0034242 |  | 0034242 | Lucas A Penny | 999-999-9999 |
| Sara | Putting | 8792422 |  | 8792422 | Sara L Jackson | 555-555-5555 |

“What are the advantages of relational databases?”

“What are the advantages of NoSQL databases?”

What are the disadvantages of relational databases? What are the disadvantages of NoSQL databases?

Identify at least two features of MySQL and two features of MongoDB, and describe what they are and how they are used.