Report

# Entity relationship diagram review

What we learned

* We learned how to create an ER diagram
* How to simplify an ER diagram
* When to simplify an ER diagram
* Advantages of using an associative relationship

Problems we ran into

* We really overcomplicated our ER diagram the first time around
* How associative relationships work
* What entities and attributes are needed for a testing database

# Schema Review

What we learned

* How to create a schema from an ER diagram
* How to show relationships between multiple schema tables
* Why schemas are important for creating a database

Problems we ran into

* Showing the foreign keys using lucid charts
* Mislabeling an attribute in the schema
* Turning a multi-value attribute into a schema

# normalization review

What we learned

* What each of the normalization forms are
* How to prove that our schemas are in BCNF starting from 1NF
* How to show dependencies between attributes in schemas

Problems we ran into

* Determining if how associative relationship schema was is BCNF or not
* Figuring out what BCNF meant

# sql table creation review

What we learned

* How to create tables in SQL
* Adding constraints onto tables
* Having multiple attributes as the primary key
* How to add checks
* How to add foreign key restraints

Problems we ran into

* Adding multiple tables at a time
* Adding the check constraints to engineer role
* Thought int datatypes took parameters when they do not
* Adding a time datatype
* Named an attribute ‘data’ with the datatype ‘DATA’ and that is not allowed

# sql tuple creation review

What we learned

* How to add multiple rows into a table at a time
* How to insert rows into a table

Problems we ran into

* Inserting multiple rows into a table
* Inserting multiple rows into a table when the table has two primary keys of the same datatype as the only attributes

# sql querie review

What we learned

* How to come up with a good SQL query
* How to convert an English description of a query into a SQL query
* How to join multiple tables and grab specific values from the new table

Problems we ran into

* Deciding what SQL queries to create
* Confirming that our SQL query results are correct
* Joining tables using just the ‘from’ command

# overall project review

What we learned

* How to get relevant information from an interview
* How to create an ER diagram
* How to create a schema from an ER diagram
* How to convert a schema into a table in Oracle
* How to fill a table with rows
* How to write SQL queries to get specific information from Oracle
* How to create a database about software testing

Problems we ran into

* Finding someone to interview
* Creating an overly complicated ER diagram
* Understanding what BCNF was exactly
* Creating multiple tables at once in Oracle
* Filling a table with multiple rows at once in Oracle