***Group 57***

<https://edstem.org/us/courses/28987/discussion/1999730?answer=4631255> (two of the other reviews posted for this project as I was reviewing/posting this one)

* Does the schema present a physical model that follows the database outline and the ER logical diagram exactly?
  + Yes the schema and ERD match exactly and both follow the outline that matches all changes and updates listed
* Is there consistency in a) naming between overview, outline, ER and schema entity/attributes b) entities plural, attributes singular c) use of capitalization for naming?
  + A. Yes there is consistency in the naming conventions. My own personal preference is to utilize underscores as well as the capitalization used for word differentiation or separation. Just easier for some to see and delineate between words.
  + B. Yes the entities are kept plural and attributes are singular.
  + C. Capitalization is used for naming and consistent across all entities and attributes.
* Is the schema easy to read (e.g. diagram is clear and readable with relationship lines not crossed)?
  + Yes. The schema is easy to read. What I believe they placed as the schema, under the ERD has a couple relationship lines crossed, but since they are color coordinated, they are still easy to read and understand, also, the ERD looks to pass a schema as well, and this diagram does not have any lines crossed.
* Are intersection tables properly formed (e.g. two FKs and facilitate a M:N relationship)?
  + Yes, intersections tables are properly formed and show all essential relationships to the assignment. The ContractorsTrades table info looks to be an intersection type table, or intermediary, which (this is not a deal-breaker, as it is still understandable) could be clarified in the naming ContractorsTradesIntersects maybe.
* Does the sample data suggest any non-normalized issues, e.g. partial dependencies or transitive dependencies?
  + No major non-normalized issues, unless one were to come up with a scenarios to simply cause mayhem in this database. One thing I did wonder about was the TaskSequence and TaskID potentially being the same unless there is more to explain on that behalf for user understanding. In the sample data for Contractors, is this showing that a contractor can be added without being licensed, just for clarity?
* Is the SQL file syntactically correct? This can be easily verified by using PhPMyAdmin and your CS 340 database (do not forget to take backup of your own database before you do this!)
  + Yes it is syntactically correct all tables formatted and filled as described in the outline, schema and example data. Also, I believe this DDL was created on myphp and dumped for the sql creation. Simply, yet efficient.
* In the SQL, are the data types appropriate considering the description of the attribute in the database outline?
  + Yes, there are minor suggestions I can make like the formatting of the Contractors.ContactPhone could be established clearly to represent a phone number or just make it an integer, but it is not a necessary change so much as a constraint because phone numbers do not have letters in them.
* In the SQL, are the primary and foreign keys correctly defined when compared to the Schema? Are appropriate CASCADE operations declared?
  + Yes. Since the schema/ERD matches the diagram from myphp, they match exactly for the foreign and primary keys described.
  + I do not see any CASCADE operations enacted in the sql, in which the applications would be necessary when this becomes the final product, because it can cause issues if not. DELETE/RESTRAIN cascade would come into play if a Contractor needs to be deleted, or UPDATES for addresses and phone numbers would be helpful.
* In the SQL, are relationship tables present when compared to the ERD/Schema?
  + Relationship tables are present. They are added at the end of the sql, in which if they were added to the table creation to keep everything together and easier to read, would be helpful, but they are there as ALTER TABLE operations.
* In the SQL, is all example data shown in the PDF INSERTED?
  + Yes the PDF sample data is directly represented by the entries in the sql file.

***Group 82***

[***https://edstem.org/us/courses/28987/discussion/1985617?answer=4631865***](https://edstem.org/us/courses/28987/discussion/1985617?answer=4631865)

* Does the schema present a physical model that follows the database outline and the ER logical diagram exactly?
  + Yes. The ERD follows the outline directly and the schema is an exact mirror of the ERD.
* Is there consistency in a) naming between overview, outline, ER and schema entity/attributes b) entities plural, attributes singular c) use of capitalization for naming?
  + A. Yes there is consistency in the naming conventions and the use in the outline, ERD and schema, however I did notice the zip file was named misleadingly not in adjacency with the criteria.
  + B. Yes the entities are plural and attributes are kept singular.
  + C. The naming conventions use of capitalization help delineate between words for the entities and attribute. One nitpicky suggestion would be to capitalize the attribute names to match the notation of the entities, just for uniformity. Otherwise, they are clear and I know what I am reading.
* Is the schema easy to read (e.g. diagram is clear and readable with relationship lines not crossed)?
  + Yes the schema is very easy to read and relationships are shown clearly. One set of lines are crossed, but it is to show relations to an intersection table with many connections.
* Are intersection tables properly formed (e.g. two FKs and facilitate a M:N relationship)?
  + Yes. Intersection tables are properly formed. I believe the two obvious ones to be Orders and LocationofProducts (this name could have been LocationOfProducts to match the uniformity of the naming conventions.
* Does the sample data suggest any non-normalized issues, e.g. partial dependencies or transitive dependencies?
  + No non-normalized issues I can see. There is some efficiency to be added if you wanted to somehow show OrderItems.lineAmount and Orders.subTotal to be the same values
* Is the SQL file syntactically correct? This can be easily verified by using PhPMyAdmin and your CS 340 database (do not forget to take backup of your own database before you do this!)
  + The sql is syntactically correct and verified by sourcing into myphp. All fields and values match up and are filled with the sample data provided.
* In the SQL, are the data types appropriate considering the description of the attribute in the database outline?
  + Yes the datatypes are correct and constraints are what I would have made them as well. One thing that is not a big deal is the phone number could be and int value I believe to restrict users from accidentally entering alphabet values in that field.
* In the SQL, are the primary and foreign keys correctly defined when compared to the Schema? Are appropriate CASCADE operations declared?
  + Cascades are present and utilized correctly, could use some update cascades for personnel records updates or if orders need updating, etc.
* In the SQL, are relationship tables present when compared to the ERD/Schema?
  + Yes the relationships described in the outline, and schema are present and clear to the reader. Good job.
* In the SQL, is all example data shown in the PDF INSERTED?
  + Yes the example data inserted in the sql is exactly replicated from the pdf file, verified in myphp.