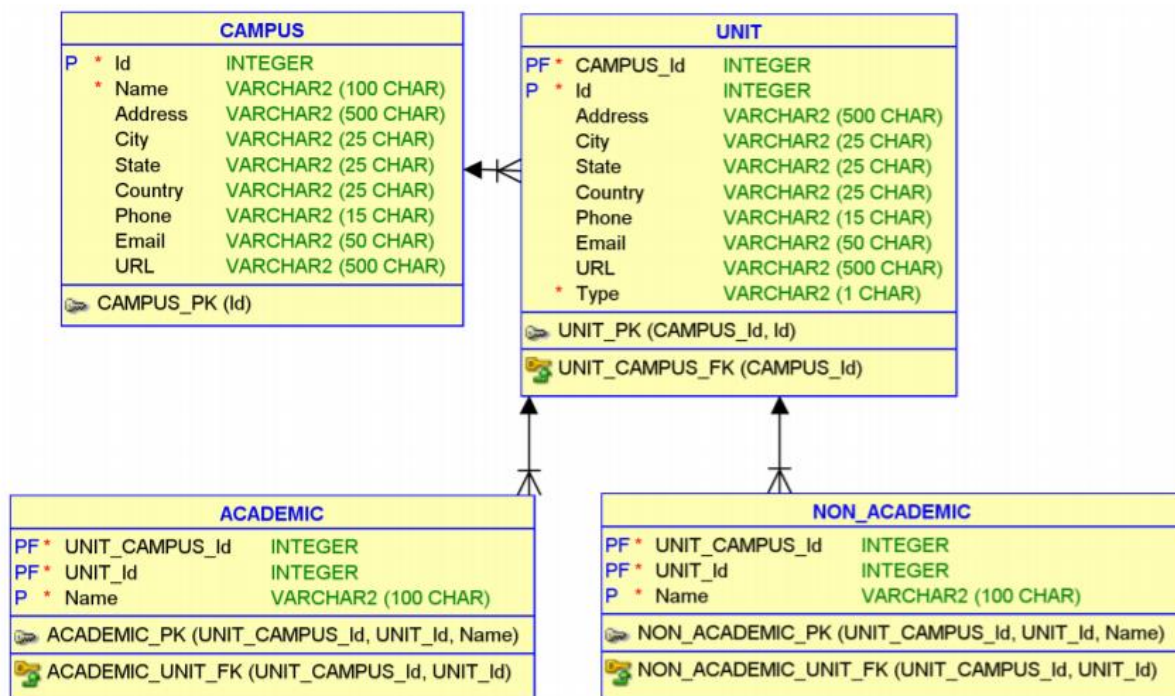


Project Phase III Instructions

- Convert the ER/EER diagram provided by the instructor into relational schema diagrams using the mapping steps explained in Chapter 9 and concepts discussed in Chapters 3, 4, 5, and SQL DDL.
 - The provided ER/EER Diagram does not contain all the attributes. Look Phase2 and add all the provided attributes to your relational diagram.
 - Identify attribute requirements (not null, unique, invalid values, etc.) and data types (integer, varchar 2, date, etc.), keys (primary, composite, foreign), relationships, and other constraints (on delete no action, etc.).
 - Create Relation Schema Diagram (as shown below) for each entity/relation using Oracle Data Modeler. Capture the possible (Min, Max) constraints.
 - Name the relations, attributes, relationships, etc. appropriately. Example Schema Diagram (Using Oracle SQL Data Modeler) see the Demo video posted



- Develop six relational-algebra queries that allow you to retrieve information from the database relational schema diagram. Refer textbook Chapter 8. Use can use <http://leap.sourceforge.net> to get hands-on
 - For each of the following queries: write the query description in English (similar to the book exercise 8.16. a through j), and the relational algebra expression based on the relational database diagram. Explain what each query is retrieving.
 - Query 1: A query involving one table to demonstrate select, project, and rename o

- Query 2: A query involving two tables to demonstrate equi-join
 - Query 3: A query involving two or more tables to demonstrate aggregation
 - Query 4: A query involving two or more tables to demonstrate division
 - Query 5: A query involving three or more tables to demonstrate grouping
 - Query 6: A query involving three or more tables to demonstrate outer join/outer union
 - See chapter 8 examples
- Submission:
 - Upload to Canvas and Print the documents and submit
 - Zip file of the entire project folder created by the Oracle Data Modeler software (make sure to test whether you have zipped the appropriate folder)
 - PDF of the Relational Schema Diagram (e.g., from Oracle Data Modeler, see above)
 - PDF of the Relational Algebra Queries