

Objective

The purpose of the Semester Database Project is to give you the opportunity to design and develop a database from start to finish.

- Deliverable 1: Write requirements and specifications for the project
- Deliverable 2: Design the ER, schema, and data dictionary**
- Deliverable 3: Implement the database, populate it with records, demonstrate its features, and provide documentation.

Grading: The entire project is 20% of your final course grade (Deliverable 1 = 4%, Deliverable 2 = 7%, Deliverable 3 = 9%).

Part 2 Instructions

1. Refine the written specifications for your database. You may add or modify entities and relationships as suggested in any grading comments, or as required to bring your project into the right scope of having between 8 to 12 *tables*. Include your revised specifications from Part 1 as the first section of the document you turn in for Part 2. The specifications should include a detailed description of the requirements of the database and what will be modeled. The specifications section should not be longer than 1,500 words.
2. Draw an ER diagram for the database. Include entities, attributes, relationships, cardinality, and participation. The ER diagram should accurately reflect the specifications. Clearly state any assumptions. Your ER Diagram should fit onto ONE PAGE.
3. Map your ER diagram to relations. Use the notation that we have used in class (and that is in your textbook) to represent the relations, attributes, primary keys, and foreign keys. Your Relation Diagram should fit onto ONE PAGE.
4. Create a data dictionary. To do this, for each relation, list each attribute, data type for it, its domain, and a brief description of it. You do not need to write SQL create table statements. Here is an example of what one relation should look like in your data dictionary:

EMPLOYEE

attribute	datatype	domain	description
eid	integer	10 digits	Employee id number
fname	char	20 chars	First name
Etc...			

Part 2 Deliverables

Turn in ONE PDF FILE that contains four clearly labeled sections as outlined above – 1) Database Specifications, 2) ER Diagram, 3) Relation Diagram, 4) Data Dictionary.

Grading:

Each group will receive a grade on Part 2. I will be looking for clarity of your specifications, how well your specifications address my grading comments from Part 1, and the clarity and accuracy of your ER diagram, Relation Diagram, and Data Dictionary.

How to turn in your assignment:

Prepare your assignment using a word processor and diagram drawing software. Select ONE group member to submit your assignment. Save your assignment into a SINGLE PDF file. Your report should be in 10 or 12 point font. Name your file according to the following convention:

onyen1-onyen2-p2.pdf

Replace *onyen1* and *onyen2* with the actual Onyens of your group members (e.g. if I was in a group with Mickey Mouse, our assignment would be *rcapra-mmouse-p2.pdf*). The character between *youronyen* and the “p2.pdf” part should be a single minus sign (not an underscore). You could also call this character a dash. There should be no spaces or other characters in the filename. Files with names that do not follow this convention will not be graded.

ONLY ONE of your team members should submit your file electronically through the Sakai by going to the Assignments area and finding the “P2” assignment. After you think you have submitted the assignment, I strongly recommend checking to be sure the file was uploaded correctly and that you can view it by clicking on it from within Sakai. If I cannot open or view your file, I cannot grade it.

If for some reason you need to re-submit your homework file, you must add a version number to your filename so that we will know which file is the most recent. Sakai is configured so that it will only accept 3 total submissions. Use the following file naming convention if you need to re-submit:

Your first submission: onyen1-onyen2-p2.pdf

Your second submission: onyen1-onyen2-p2-v2.pdf

Your third submission: onyen1-onyen2-p2-v3.pdf

Sakai is also configured with a due date and an “accept until” date. Submissions received after the due date (even just 1 minute!) will receive a 10% penalty per day. The “accept until” date is 5 days after the due date. Submissions will not be accepted after the “accept until” date and will have a score of zero recorded.