

Assignment 1 - 30% – groups of 2 or 3 students

The Task

Your task for this assignment is to complete a database design for the Assignment 1 case study.

1. Produce a data model (25 marks)

Model the system described in the case study, and draw a Physical Data Model using MySQL Workbench.

Your diagram must conform to the notation used in this subject (e.g. Workbench Simplified notation, ~~show crow's foot~~ relationships "connect to columns", show data types). If you include entity sub-types, place them inside a Layer with a note explaining their relationship to the super-type. Your model should be in at least 3rd normal form, but there is no need to show the normalisation process as part of your submission.

If you are uncertain about any aspect of the handout, seek clarification via LMS, in class, or at Office Hours. You may write down any assumptions you made when designing your model. (Making an assumption for the reason of simplifying the exercise will not be accepted.)

2. Produce a data dictionary (5 marks)

Write a data dictionary for all the tables in your proposed database.

Follow the example data dictionary provided on LMS.

Assessment

This assignment is worth 30% of your marks in the subject.

Your data model will be assessed on the correctness (5%) and completeness (20%) of your solution. 'Correctness' refers to whether your model adheres to the rules and syntax of data modelling. 'Completeness' refers to whether the model includes all of the required entities and relationships and can handle the data storage problem specified.

The data dictionary (5%) will be assessed on the aptness of the data types chosen, and how well you explain each of column, with reference to the business case.

Submission

Submit your assignment as **a single PDF document** via the LMS by midnight on the due date of Monday 18th April, in week 7.

To copy your ER diagrams into your document, use Workbench File/Export as a PNG file.

Please ensure that you place the **student name, number and username** of each group member in the header of every page of your assignment.

Academic Honesty

Plagiarism - the copying of another's work without proper acknowledgment - is not permitted; nor is allowing another person to copy your work. Work submitted for assessment purposes must be the independent work of the students concerned. Please refer to <http://academichonesty.unimelb.edu.au/> for details about academic honesty.

Academic misconduct occurs when students portray someone else's work as their own. There are many ways in which Academic misconduct can occur. Some of these are:

- *Sham Paraphrasing*: Material copied verbatim but represented as paraphrased.
- *Illicit Paraphrasing*: Material paraphrased without in-line acknowledgement of source.
- *Other Plagiarism*: Material copied from another student with their knowledge.
- *Verbatim Copying*: Material copied verbatim without acknowledgement of source.
- *Recycling*: Same assignment submitted more than once for different subjects.
- *Ghost Writing*: Assignment written by third party and represented as own work.
- *Purloining*: Assignment copied from another student without their knowledge.

The university is committed to graduating students with "a profound respect for truth, and for the ethics of scholarship... we want our graduates to be capable of independent thought, to be able to do their own work, and to know how to acknowledge the work of others" (Prof. Peter McPhee). All students should be aware of the website <http://academichonesty.unimelb.edu.au/advice.html> which provides practical advice to students about how to avoid academic misconduct.

Quick checklist (Reproduced with permission of Dr Stephen Morgan, Faculty of Economics and Commerce)

1. Be certain to acknowledge sources fairly and avoid plagiarising, review this checklist before beginning to write your essay and again after you have completed your first draft.
2. What type of source are you using: your own independent material, common knowledge, or someone else's independent material?
3. If you are quoting someone else's material, is the quotation exact? Have you used quotation marks for quotations run into the text? Have you set off block quotes with an extra space before and after the quote, single spacing within the quote, and left indenting of all lines of the block quote? Are omissions shown with ellipses and additions with square brackets?
4. If you are paraphrasing someone else's material, have you rewritten it in your own words and sentence structures? Does your paraphrase employ quotation marks when you resort to the author's exact language? Have you represented the author's meaning without distortion?
5. Have you acknowledged each use of someone else's material?
6. Do all references contain complete and accurate information on the sources you have cited?