

COMM1822

Term 2 2022

Introduction to Databases for Business Analytics

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Week 1 Entity Relatio
(ER) Modelling Part 1

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Week 1 Welc Online Class Manner

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Copyright

- There are some file-sharing websites that specialise in buying and selling academic work to and from university students.

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- If you upload your original work and presents it as their own either on your own or through other student downloads **https://eduassistpro.github.io/** **you will be found guilty of collusion — even years after graduation**

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- These file-sharing websites may also accept purchase of course materials, **such as copies of lecture slides and tutorial handouts**. By law, the copyright on course materials, developed by UNSW staff in the course of their employment, belongs to UNSW. It constitutes copyright infringement, if not academic misconduct, to trade these materials.

Acknowledgement of Country

UNSW Business School acknowledges the Bidjigal (Kensington campus) and Gadigal (City campus) the traditional custodians of the lands where each campus is located.

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We acknowledge all Aboriginal and Torres Strait Islander Elders, past and present and their communities who have shared and practiced their teachings over thousands of years including business practices.

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We recognise Aboriginal and Torres Strait Islander people's ongoing leadership and contributions, including to business, education and industry.

UNSW Business School. (2022, May 7). *Acknowledgement of Country* [online video]. Retrieved from <https://vimeo.com/369229957/d995d8087f>

Ice Breaker

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source: LinkedIn

Things you need to know

Attendance

- Please join your class weekly via Teams few minutes before start.
- For On-Campus classes, please be ready in class to class.
- Attendance will be mark), if you exit the classroom or do not participate this
- Please attend the correc

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Online classes Etiquettes.

- Please have a working headset or microphone for verbal communication.
- Mute your Microphone but have your camera **ON**.
- Do not talk over others, please use the “Raise the Hand” function.
- Please minimize background disruptions e.g., barking dog, music, television etc.

Things you need to know

You must only attend the tutorial that you have enrolled in.

Please be prepared! **Assignment Project Exam Help**

- Before class: <https://eduassistpro.github.io/>
 - Do the activities before joining classes.
- During class: **Add WeChat edu_assist_pro**
 - Weeks 1 - 2: ER Modelling
 - Apply theory taught in lecture
 - Go through examples and exercises
 - Complete lab exercises on ER modelling
 - Week 3 onwards: SQL
 - We will run through activities in class

Clarifying Class Participation and lab requirements

Attendance and Class Participation

- To get full attendance, you must attend your class and fully participate.
- Your tutor would be available anytime! <https://eduassistpro.github.io/>
- Business School requires 80% min attendance.

If you are sick or unable to attend the lab, you can submit a Special Consideration.

- Special consideration: <https://student.unsw.edu.au/special-consideration>

PASS Class



PASS Class

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Friday 10am – 11am (BUS 216 and
ne) – starting Week 2

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PASS Leader: Srilekha Kolaki

Group Assignment



You need to solve the assignment in a group of 4 (or 5 if needed) students.

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Assign one member of the team as the team leader

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Submit a signed group cover sheet and enroll in the correct Moodle group by the end of Week 2

Things to consider when choosing group members

- ☐ Do they have the same **outcome expectation** as you (e.g., are all team members aiming for a HD or a credit)?
- ☐ **Time** schedule – is every for a meeting to discuss an assignment together at a every week?
- ☐ **Location** – if there are face-to-face meetings, where is everyone situated?
- ☐ **Time Zone** – If you are in a different time zone, please tell your peers.

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ER Modelling Exercises

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Exercise 1

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- a. What is the PK in Employee?
- What is the PK in Department?
- What is the FK?
- What is the name of Head of Computer Science?
- e. List the names of people who work for J. F. Smith.
- f. Draw your first ER diagram!

Exercise 2

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- a) What is the PK for TUTORIAL_CLASS?
- b) What is the PK for LOCATION?
- c) Can Mr. Parkin use Video and Computer in his class?

Exercise 3

Examine the ER diagram in this figure and state which of the following statements is true.

- ① A course can belong to one program only
- ② A program has only one course
- ③ A program can have many courses
- ④ A program can have at least one course
- ⑤ A program can have at most one course
- ⑥ A program may not have any courses

Exercise 4

❑ Create an ER model in Chen's Notation for each of the following descriptions:

- a) Each company operates four departments, and each department belongs to one company.
- b) Each department in part (a) has four employees, and each employee works for one department.
- c) Each of the employees in part (b) may or may not have one or more dependents, and each dependent belongs to one employee.
- d) Each employee in part (c) may or may not have an employment history.
- e) Represent all the ER models described in (a), (b), (c), and (d) as a single ER model

Exercise 5

Create an ER model for the following requirements:

❑ UNSW Fitness Club

- The club offers a number of exercises (exercise number, exercise type, exercise level) for its members i.e. staff and students.
- A member can participate in several exercises.
- Each exercise class has one employee assigned as instructor.
- Each instructor (described by instructor id, name, address) teaches at least one class and may teach up to 5 classes.
- Each exercise class is taught in a specified room, on a specified date and time.
- Rooms can be used for different classes.

Do not use composite entities for now.

Exercise 6

Create the ER diagram (entities, relationship, and key attributes) appropriate to the following description of a university program structure:

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Business Rules:

- ☐ A program contains many c
- ☐ A course can be part of many programs.
- ☐ Students enrol in many courses.
- ☐ Students may enrol in more than one program.

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Do not use composite entities for now.

Next week Activities

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Activities of Week 2 must be completed prior to Wednesday 4.00pm of Week 2



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Question

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Course Outline -

<https://www.business.unsw.edu.au/degrees-courses/course-outlines/archives/COMM1822-2022-T2>

If there are any other questions, please post your questions on Moodle.

Source: tryinteract.com