

COMM1822

Term 2 2022

Introduction to Databases for Business Analytics

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Week 1 Introduction

<https://eduassistpro.github.io/>

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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>

COMM1822 Lecture and Tutorial

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Plan: W1 Learnings

- **Data** vs. **information**
- Data stored in **databases**
- Database management system (DBMS)
- **Database design** defines data
- The next big thing: **big data**

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Chapter 1
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1-7
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Data vs Information

Data

- Raw facts
- Have **not yet been processed** to reveal their meaning to the user
- Building blocks of information

e.g., marks for your quiz, assignment, ..., in a course

Information

- Resulted by **processing raw data** to reveal its meaning
- **of knowledge**
- Should be **accurate**, **relevant**, and **timely** to enable good decision making

e.g., WAM (Weighted Average Mark) -> How you did at UNSW

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Introducing Database

- A shared, integrated computer structure that stores a collection of:
 - **End-user data** – Raw facts of interest to end user
 - **Metadata:** “Data about data” – End-user data are integrated and managed
 - ❑ **Describe data characteristics** – Interested in e.g., a set of dates → Start of a project, Evaluation of the progress, End of the project, ...
- **Database management system (DBMS)**
 - Collection of programs
 - Manages the database structure
 - Controls access to data stored in the database

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Like a steward

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Metadata (Data Dictionary) Example

Data Item		Value			
Name	Type	Length	Min	Max	Description
Course	Alphanumeric	100			CourseID and Name
Class	Integer			9	Class Number
Semester	Alphanumeric				Semester and Year
Name	Alphanumeric	50			Student Name
ID	Integer	7			Student ID

Alice Tomson (zID: 1234567) takes COMM1822 Introduction to Databases for Business Analytics (Class: 1) in Term 2 2022.

Data in Context: Google

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Data in Context: Apple

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Basic Terminology

- **Character:** Most basic element of data.
- **Field:** Contains data (composed of characters).
- **Record:** Set of related fields.
- **Database:** Collects related r
- **DBMS:** Manages the databa

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Source: psu.edu

History of Handling Data

- **Manual filing systems.** not efficient
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- **Computerised filing systems** <https://eduassistpro.github.io/>
- **Database systems.** Add WeChat edu_assist_pro
more efficiently

Source: bizfluent.com

Advantages of Database Systems

- **Reduced data inconsistency** and **anomalies**.
- **Reduced data redundancy** and improved data sharing. e.g. data storage
- Increased application development **productivity**.
- **Reduced data structure blemishes**. <https://eduassistpro.github.io/>
- **Easier** to create, access and manage data.
- Enforcement of **standards**. Add WeChat edu_assist_pro
e.g., Mark Analytics Departments using the same dataset
- Central **security**. e.g. who can access what data – someone can write/modify data; someone can only read data
- Standardized **backup** and **recovery**.
- **Concurrency** handling.

Recap: W1 Learnings

- **Data vs. information**
- Data stored in **databases**
- Database management
- **Database design** defin <https://eduassistpro.github.io/>
- The next big thing: **big data**

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Questions

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Source: tryinteract.com