School of Computer Science
Faculty of Engineering

**COMP9120 ASSIGNMENT COVERSHEET - GROUP ASSESSMENT**

**Assignment name:**

Assignment 1: Conceptual Modelling & Logical DB Design

**DECLARATION**

We the undersigned declare that we have read and understood the _University of Sydney Academic Dishonesty and Plagiarism in Coursework Policy_, an, and except where specifically acknowledged, the work contained in this assignment/project is our own work, and has not been copied from other sources or been previously submitted for award or assessment. We understand that failure to comply with the _Academic Dishonesty and Plagiarism in Coursework Policy_ can lead to severe penalties as outlined under Chapter 8 of the _University of Sydney By-Law1999_ (as amended). These penalties may be imposed in cases where any significant portion of my submitted work has been copied without proper acknowledgement from other sources, including published works, the internet, existing programs, the work of other students, or work previously submitted for other awards or assessments. We realise that we may be asked to identify those portions of the work contributed by each of us and required to demonstrate our individual knowledge of the relevant material by answering oral questions or by undertaking supplementary work, either written or in the laboratory, in order to arrive at the final assessment mark.

| Assignment team members | | | | |
|---|---|---|---|---|
| **Student name** | **Student ID** | **Participated** | **Agree to share** | **Signature** |
| Yuhan Luo | 540845389 | Yes | Yes | Yuhan Luo |
| Mingjie Zhang | 540798904 | Yes | Yes | Mingjie Zhang |
| Danyue Xun | 540225802 | Yes | Yes | Danyue Xun |

# COMP9120 Assignment Participation Summary of Group

[41]

*Note that the total of members' participation percentage must be 100%*

Member 1 Participation Percentage:

| 33.3% |

Name: Yuhan Luo

Student ID: 54084538

Summary of Contribution:

- Analyzed assignment requirements, identified entities, attributes, relationships, and constraints.
- Created the Entity Relationship Diagram (ERD).
- Documented the justification of ERD design choices and assumptions.
- All group members collaboratively discussed and determined the entities, attributes, and relationships, as well as clarified the constraints for each attribute in SQL, ensuring consistency and accuracy throughout the database design.

Member 2 Participation Percentage:

| 33.3% |

Name: Danyue Xun

Student ID: 540225802

Summary of Contribution:

- Created the Relational Model Diagram (RM Diagram) based on the ERD.
- Defined relational mappings, keys, and data types clearly aligned with the ERD.
- Prepared documentation for the RM diagram and relational schema.
- All group members collaboratively discussed and determined the entities, attributes, and relationships, as well as clarified the constraints for each attribute in SQL, ensuring consistency and accuracy throughout the database design.

Member 3 Participation Percentage:

33.4%

Name: Mingjie Zhang                    Student ID: 540798904

Summary of Contribution:

- Developed SQL statements (DDL and DML) for creating and populating the database.
- Ensured database schema integrity through clearly defined primary keys, foreign keys, and constraints.
- Conducted SQL testing to guarantee compatibility with PostgreSQL and correct enforcement of integrity constraints.
- All group members collaboratively discussed and determined the entities, attributes, and relationships, as well as clarified the constraints for each attribute in SQL, ensuring consistency and accuracy throughout the database design.

SIT Building, J12
The University of Sydney
NSW 2006 Australia

**T** +61 2 9351 3423
**F** +61 2 9351 3838
**E** cs.reception@sydney.edu.au
https://www.sydney.edu.au/engineering/school
s/school-of-computer-science.html

ABN 15 211 513 464
CRICOS 00026A