

DATABASE PROJECT

Course	COMP353: Databases
Term / Session	FALL 2023
Section	F
Student #1 (name)	
Student #2 (name)	
Student #3 (name)	
Student #4 (name)	
Date	

REPORT	
Conceptual Diagram	/ 10
Logical Diagram	/ 10
Relationnel Schema	/ 10
Normalization	/ 10
Constraints	/ 5
Data Dictionary (SQL Script of the creation of tables)	/ 10
Insertion of data in tables	/ 10
Implementation of 9 required SQL queries #1 : 2 pts. #2 : 2 pts. #3 : 3 pts. #4 : 3 pts. #5 : 4 pts. #6 : 2 pts. #7 : 5 pts. #8 : 3 pts. #9 : 6 pts.	/ 30
Total	/ 100

1 Conceptual Diagram

[Insert the system conceptual diagram corresponding to the project specifications. Make sure the diagram is clear.]

2 Logical Diagram

[Insert the entity-relation (E/R) diagram of the system corresponding to section 2. Make sure the diagram is clear.]

3 Relational Schema

[Insert the relational schema if the logic diagram provided in section 2. Make sure that the schema is clear.]

4 Normalization

[Explain in plain English the normalization you have used in the logical diagram.]

5 Constraints

[Explain in plain English the various constraints used to the attributes of your tables (NOT NULL, CHECK, primary key, foreign key, UNIQUE, etc.).]

6 Data Dictionary (SQL Script of the creation of all tables)

[Describe all structures of tables of logical or relational model by using the SQL code (syntax).]

7 Data Insertion in tables

[Populate the tables with the data needed in order to answer to the asked queries (10 rows minimum for each **STRONG** table and 5 minimum for each **WEAK** table).]

8 Implementation of queries with outputs

Query #1: List of customers that are businesses (Enterprises or Companies)

Output #1:

Query #2: List of reservations whose reservation number is greater than 1.

Output #2:

Query #3: List of drivers and vehicles having participated in at least one mission.

Output #3:

Query #4: List of missions between October 11, 2023 and October 18, 2023 as well as the drivers and vehicles participating in these missions.

Output #4:

Query #5: The list of customers who have not paid their invoices.

Output #5:

Query #6: List of drivers who have driven 'GMC' brand vehicles.

Output #6:

Query #7: Which customers have invoices greater than 1000 \$?

Output #7:

Query #8: List of customers with their number of associated invoices.

Output #8:

Query #9: What are the last names and first names of the drivers who have a mission between the following dates: October 1, 2023 and November 30, 2023 whose mileage (number of kilometers traveled) is more than 7000 km?

Output #9: