1. COMPULSORY STUDENT DECLARATION DETAILS: ASSIGNMENT 1 INFO20003

Plagiarism

Plagiarism is the act of representing as one's own original work the creative works of another, without appropriate acknowledgment of the author or source.

Collusion

Collusion is the presentation by a student of an assignment as his or her own which is in fact the result in whole or in part of unauthorised collaboration with another person or persons. Collusion involves the cooperation of two or more students in plagiarism or other forms of academic misconduct.

Both collusion and plagiarism can occur in group work. For examples of plagiarism, collusion and academic misconduct in group work please see the University's policy on Academic Honesty and Plagiarism: https://academichonesty.unimelb.edu.au

Plagiarism and collusion constitute cheating. Disciplinary action will be taken against students who engage in plagiarism and collusion as outlined in University policy. Proven involvement in plagiarism or collusion may be recorded on my academic file in accordance with Statute 13.1.18.

STUDENT DECLARATION

Please tick to indicate that you understand the following statements:

I declare that:

☑ This assignment is my own original work, except where I have appropriately cited the original source (Appropriate citation of original work will vary from discipline to discipline).

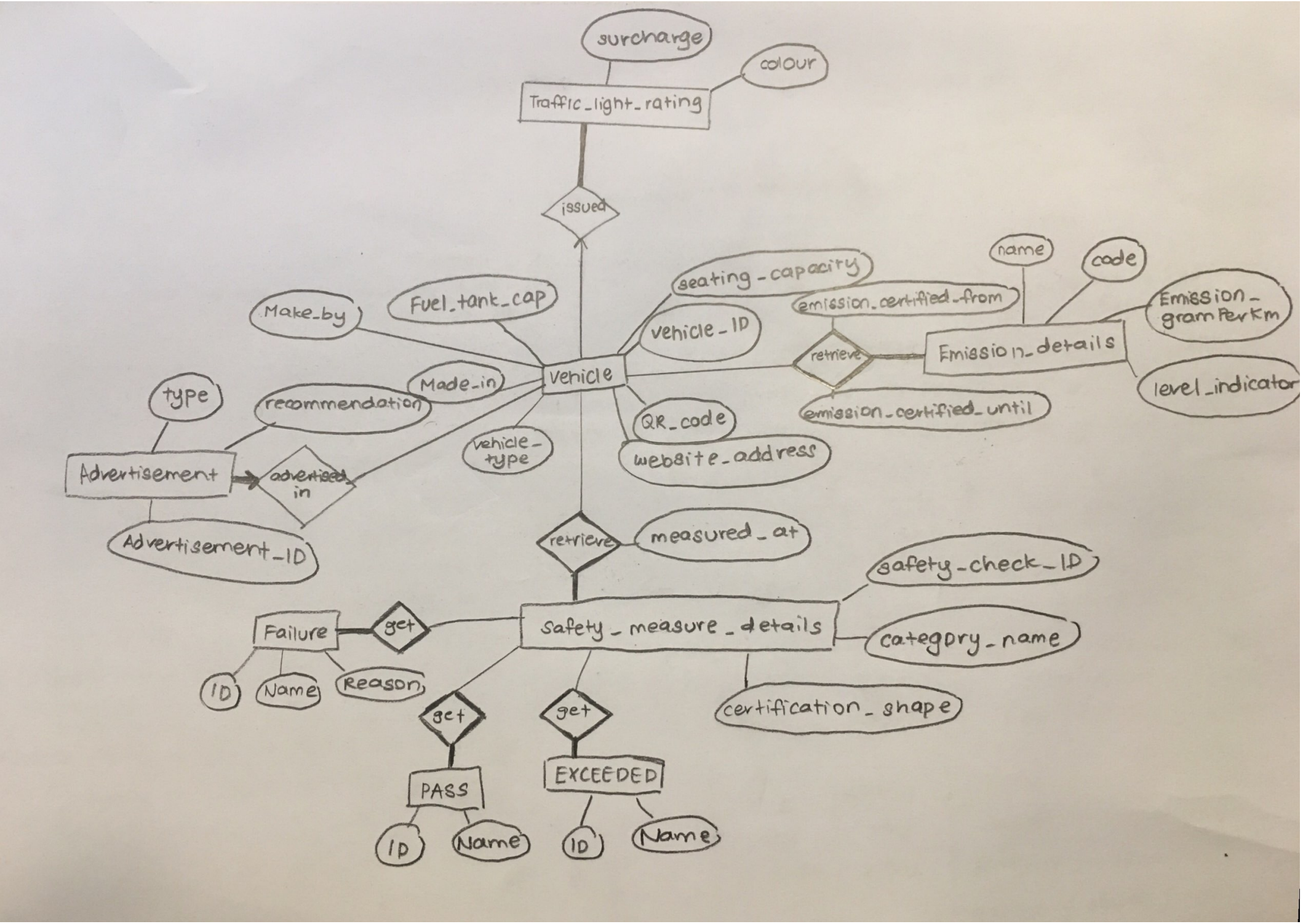
☑ This assignment has not previously been submitted for assessment in this or any other subject.

For the purposes of assessment, I give the assessor of this assignment the permission to:

☑ Reproduce this assignment and provide a copy to another member of staff; and

☑ Take steps to authenticate the assignment, including communicating a copy of this assignment to a checking service (which may retain a copy of the assignment on its database for future plagiarism checking).

Student signature Jeremy Date 29/8/17



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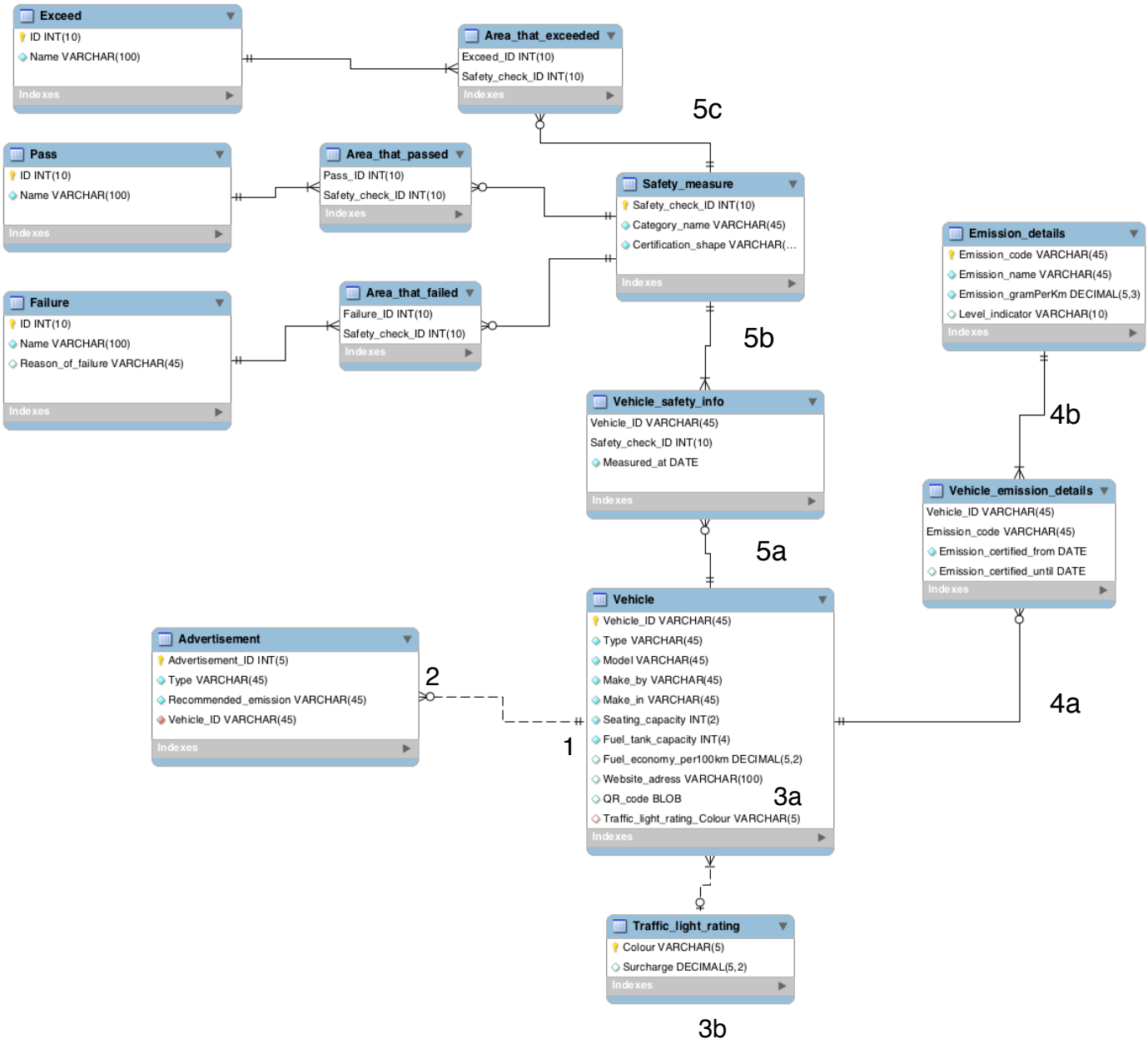
Exceed
ID INT(10)
Name VARCHAR(100)
Indexes
Area_that_exceeded
Exceed_ID INT(10)
Safety_check_ID INT(10)
Indexes
5c
Pass
ID INT(10)
Name VARCHAR(100)
Indexes
Area_that_passed
Pass_ID INT(10)
Safety_check_ID INT(10)
Indexes
Safety_measure
Safety_check_ID INT(10)
Category_name VARCHAR(45)
Certification_shape VARCHAR(...
Indexes
Emission_details
Emission_code VARCHAR(45)
Emission_name VARCHAR(45)
Emission_gramPerKm DECIMAL(5,3)
Level_indicator VARCHAR(10)
Indexes
Failure
ID INT(10)
Name VARCHAR(100)
Reason_of_failure VARCHAR(45)
Indexes
Area_that_failed
Failure_ID INT(10)
Safety_check_ID INT(10)
Indexes
5b
4b
Vehicle_safety_info
Vehicle_ID VARCHAR(45)
Safety_check_ID INT(10)
Measured_at DATE
Indexes
Vehicle_emission_details
Vehicle_ID VARCHAR(45)
Emission_code VARCHAR(45)
Emission_certified_from DATE
Emission_certified_until DATE
Indexes
5a
Vehicle
Vehicle_ID VARCHAR(45)
Type VARCHAR(45)
Model VARCHAR(45)
Make_by VARCHAR(45)
Make_in VARCHAR(45)
Seating_capacity INT(2)
Fuel_tank_capacity INT(4)
Fuel_economy_per100km DECIMAL(5,2)
Website_adress VARCHAR(100)
QR_code BLOB
Traffic_light_rating_Colour VARCHAR(5)
Indexes
3a
Advertisement
Advertisement_ID INT(5)
Type VARCHAR(45)
Recommended_emission VARCHAR(45)
Vehicle_ID VARCHAR(45)
Indexes
2
1
4a
Traffic_light_rating
Colour VARCHAR(5)
Surcharge DECIMAL(5,2)
Indexes
3b

Assumptions:

1)
- A vehicle can be advertised in many advertisement (newspaper, social media, brochure)

- A vehicle may have not been advertised yet

2)

- An advertisement can only advertise for one vehicle (shown in the example, its specific for one vehicle)

3a)
- Each vehicle has a unique website address as company usually has different links for different vehicle

3b)
- A vehicle may not have a traffic light rating yet as it may not have been tested by the authorities

4a)
- A new vehicle may not be tested on emission output
- A vehicle can have many different emissions (THC, NOx, MHC,NMHC…)
- Maintain flexibility as we can add a new emission without creating another new table (just create a new emission_name)

4b)
- One type of emission is in many vehicles
- gramPerKm can be used to derived emission gramPer100km by multiplying 100km
- gramPerKm can be used to derived emission perFullTank by multiplying with fuel_tank_capacity in Vehicle table

5a)
- New vehicle may not been measured on the key safety areas
- One vehicle has 4 areas of safety check area

5b)
- At least 4 safety checks in every vehicle
(may have more in the future, can be easily added)

5c)
- For every safety check category, they may be multiple areas that are checked (fail, pass or exceed)