Curtin University – Department of Computing

Assignment Cover Sheet / Declaration of Originality

Complete this form if/as directed by your unit coordinator, lecturer or the assignment specification.

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Unit name:	Database Systems	Unit ID:	ISYS2014
Lecturer / unit coordinator:	Ms Nimalika Fernando	Tutor:	Foad Motalebi
Date of submission:	25/10/2023	Which assignment?	

I declare that:

- The above information is complete and accurate.

- The work I am submitting is *entirely my own*, except where clearly indicated otherwise and correctly referenced.

- I have taken (and will continue to take) all reasonable steps to ensure my work is *not accessible* to any other students who may gain unfair advantage from it.

- I have *not previously submitted* this work for any other unit, whether at Curtin University or elsewhere, or for prior attempts at this unit, except where clearly indicated otherwise.

I understand that:

- Plagiarism and collusion are dishonest, and unfair to all other students.

- Detection of plagiarism and collusion may be done manually or by using tools (such as Turnitin).

- If I plagiarise or collude, I risk failing the unit with a grade of ANN ("Result Annulled due to Academic Misconduct"), which will remain permanently on my academic record. I also risk termination from my course and other penalties.

- Even with correct referencing, my submission will only be marked according to what I have done myself, specifically for this assessment. I cannot re-use the work of others, or my own previously submitted work, in order to fulfil the assessment requirements.

- It is my responsibility to ensure that my submission is complete, correct and not corrupted.
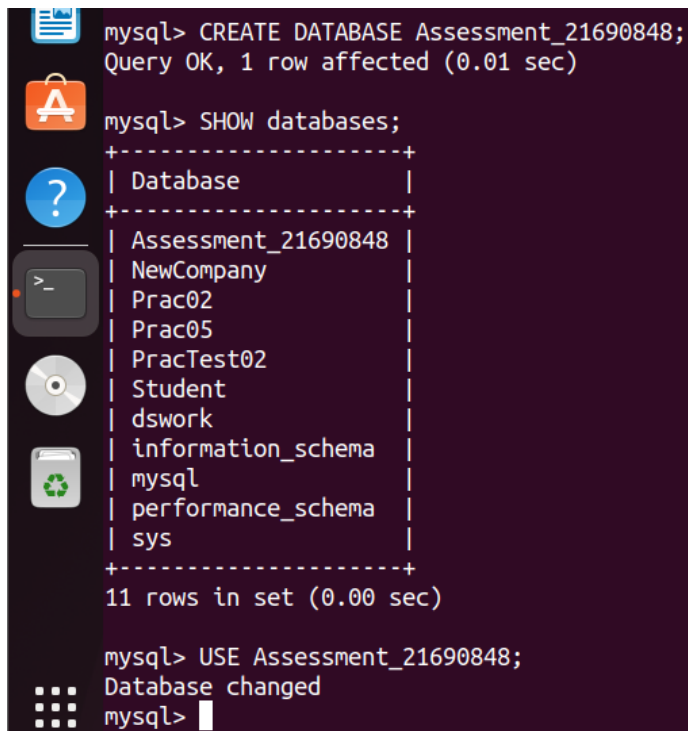
Signature: _____

Date of signature: 25/10/2023

(By submitting this form, you indicate that you agree with all the above text.)
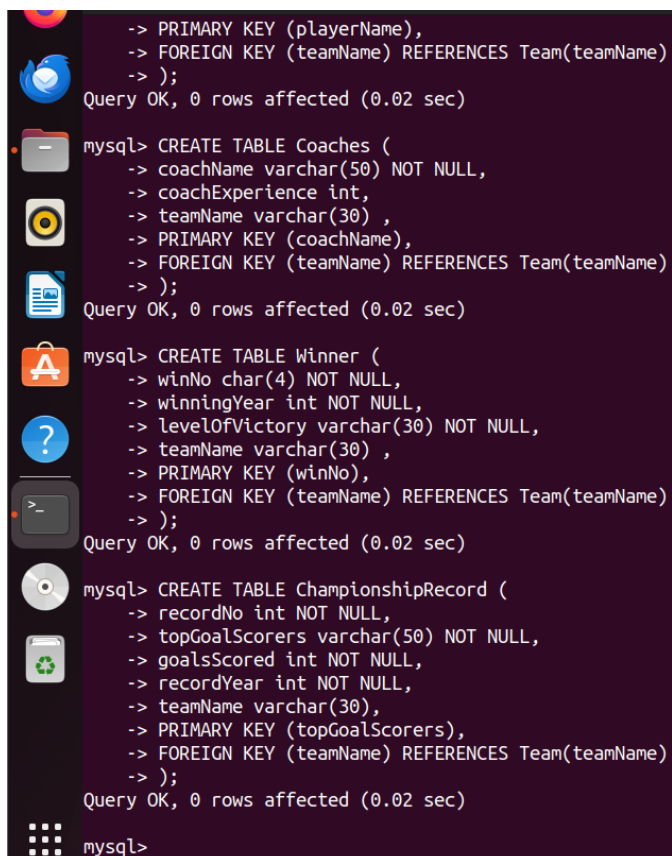
1. Create a database to be used.

```
mysql> CREATE DATABASE Assessment_21690848;
Query OK, 1 row affected (0.01 sec)

mysql> SHOW databases;
+--------------------+
| Database           |
+--------------------+
| Assessment_21690848 |
| NewCompany         |
| Prac02             |
| Prac05             |
| PracTest02         |
| Student            |
| dswork             |
| information_schema |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
11 rows in set (0.00 sec)

mysql> USE Assessment_21690848;
Database changed
mysql>
```

2. Create all the tables with the given mysql commands.

```
    -> PRIMARY KEY (playerName),
    -> FOREIGN KEY (teamName) REFERENCES Team(teamName)
    -> );
Query OK, 0 rows affected (0.02 sec)

mysql> CREATE TABLE Coaches (
    -> coachName varchar(50) NOT NULL,
    -> coachExperience int,
    -> teamName varchar(30) ,
    -> PRIMARY KEY (coachName),
    -> FOREIGN KEY (teamName) REFERENCES Team(teamName)
    -> );
Query OK, 0 rows affected (0.02 sec)

mysql> CREATE TABLE Winner (
    -> winNo char(4) NOT NULL,
    -> winningYear int NOT NULL,
    -> levelOfVictory varchar(30) NOT NULL,
    -> teamName varchar(30) ,
    -> PRIMARY KEY (winNo),
    -> FOREIGN KEY (teamName) REFERENCES Team(teamName)
    -> );
Query OK, 0 rows affected (0.02 sec)

mysql> CREATE TABLE ChampionshipRecord (
    -> recordNo int NOT NULL,
    -> topGoalScorers varchar(50) NOT NULL,
    -> goalsScored int NOT NULL,
    -> recordYear int NOT NULL,
    -> teamName varchar(30),
    -> PRIMARY KEY (topGoalScorers),
    -> FOREIGN KEY (teamName) REFERENCES Team(teamName)
    -> );
Query OK, 0 rows affected (0.02 sec)

mysql>
```

You will be able to see that you have created 8 tables respectively.


```
mysql> SHOW tables;
+-----------------------------+
| Tables_in_Assessment_21690848 |
+-----------------------------+
| ChampionshipRecord          |
| Coaches                     |
| FIFA                        |
| Location                    |
| Player                      |
| Stadium                     |
| Team                        |
| Winner                      |
+-----------------------------+
8 rows in set (0.00 sec)

mysql>
```

Other than that description can be seen as below for tables.


```
| teamName         | varchar(30) | YES  | MUL | NULL    |       |
+------------------+-------------+------+-----+---------+-------+
4 rows in set (0.00 sec)

mysql> DESC Stadium;
+-----------------+-------------+------+-----+---------+-------+
| Field           | Type        | Null | Key | Default | Extra |
+-----------------+-------------+------+-----+---------+-------+
| stadiumName     | varchar(35) | NO   | PRI | NULL    |       |
| seatingCapacity | int         | NO   |     | NULL    |       |
| stadiumType     | varchar(30) | YES  |     | NULL    |       |
| locationNo      | char(4)     | YES  | MUL | NULL    |       |
+-----------------+-------------+------+-----+---------+-------+
4 rows in set (0.00 sec)

mysql> DESC Team;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| teamName    | varchar(30) | NO   | PRI | NULL    |       |
| teamCountry | varchar(30) | NO   |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
2 rows in set (0.00 sec)

mysql> DESC Winner;
+---------------+-------------+------+-----+---------+-------+
| Field         | Type        | Null | Key | Default | Extra |
+---------------+-------------+------+-----+---------+-------+
| winNo         | char(4)     | NO   | PRI | NULL    |       |
| winningYear   | int         | NO   |     | NULL    |       |
| levelOfVictory| varchar(30) | NO   |     | NULL    |       |
| teamName      | varchar(30) | YES  | MUL | NULL    |       |
+---------------+-------------+------+-----+---------+-------+
4 rows in set (0.00 sec)

mysql>
```

3. Insert the needed data for the database tables with the given commands.

```
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO Player (playerName, playerPosition, playerNationality, teamName)
    -> VALUES ('Rafaelle Souza', 'Defender', 'Brazilian', 'Brazil');
Query OK, 1 row affected (0.01 sec)

mysql>
mysql> INSERT INTO Coaches (coachName, coachExperience, teamName)
    -> VALUES ('Tony Gustavsson', 21, 'Australia');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO Coaches (coachName, teamName)
    -> VALUES ('German Portanova', 'Argentina');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Coaches (coachName, coachExperience, teamName)
    -> VALUES ('Andries Jonker', 2, 'Netherlands');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO Coaches (coachName, teamName)
    -> VALUES ('Nacho Quintana', 'Panama');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO Coaches (coachName, teamName)
    -> VALUES ('Francisco Neto', 'Portugal');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO Coaches (coachName, coachExperience, teamName)
    -> VALUES ('Desiree Ellis', 9, 'South Africa');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Coaches (coachName, coachExperience, teamName)
    -> VALUES ('Colin Bell', 6, 'Korea Republic');
Query OK, 1 row affected (0.00 sec)

mysql>
```
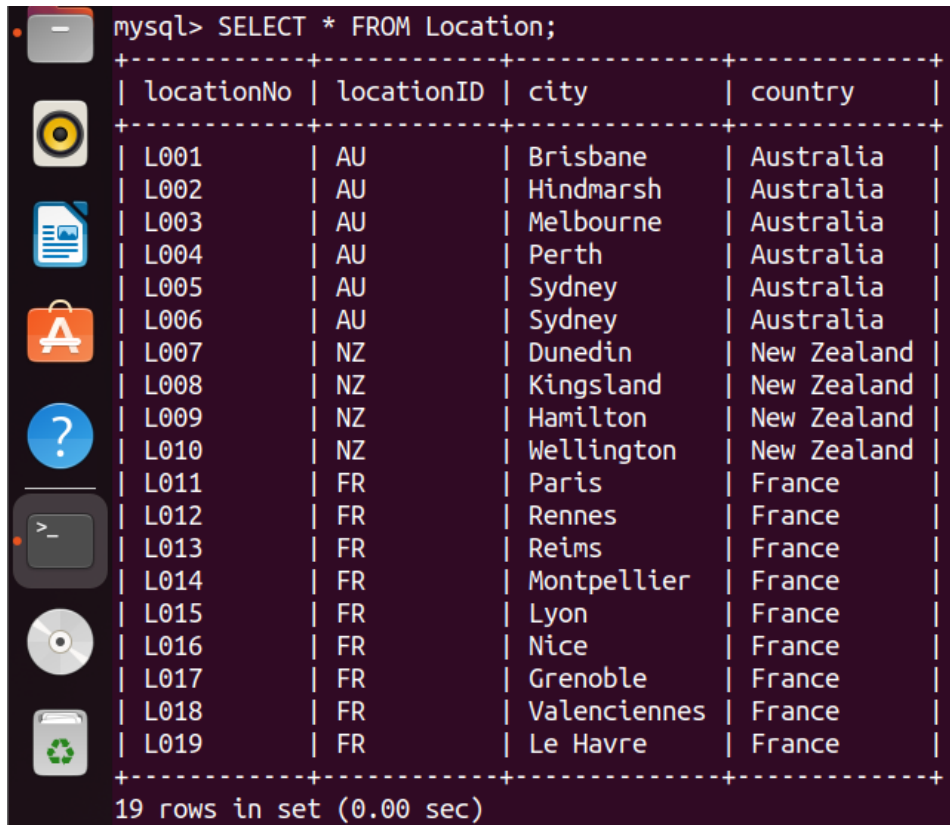
You can see the inserted data in the photos below for some of the tables.

```
mysql> SELECT * FROM Stadium;
+-----------------------+-----------------+-------------+------------+
| stadiumName           | seatingCapacity | stadiumType | locationNo |
+-----------------------+-----------------+-------------+------------+
| AAMI Park             |           28870 | Outdoor     | L003       |
| Accor Stadium         |           69314 | Outdoor     | L005       |
| Allianz Stadium       |           38841 | Outdoor     | L006       |
| Coopers Stadium       |           13327 | Outdoor     | L002       |
| Eden Park             |           40536 | Outdoor     | L008       |
| FMG Stadium Waikato   |           16271 | Outdoor     | L009       |
| Forsyth Barr Stadium  |           24243 | Indoor      | L007       |
| HBF Park              |           13932 | Outdoor     | L004       |
| Parc des Princes      |           47929 | Outdoor     | L011       |
| Roazhon Park          |           29778 | Outdoor     | L012       |
| Sky Stadium           |           31089 | Outdoor     | L010       |
| Stade Auguste-Delaune |           21127 | Outdoor     | L013       |
| Stade de la Mosson    |           32939 | Outdoor     | L014       |
| Stade de Lyon         |           59186 | Outdoor     | L015       |
| Stade de Nice         |           35100 | Outdoor     | L016       |
| Stade des Alpes       |           20068 | Outdoor     | L017       |
| Stade Oceane          |           25178 | Outdoor     | L019       |
| State du Hainaut      |           44043 | Outdoor     | L018       |
| Suncorp Stadium       |           56851 | Outdoor     | L001       |
+-----------------------+-----------------+-------------+------------+
19 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM Location;
+------------+------------+-------------+-------------+
| locationNo | locationID | city        | country     |
+------------+------------+-------------+-------------+
| L001       | AU         | Brisbane    | Australia   |
| L002       | AU         | Hindmarsh   | Australia   |
| L003       | AU         | Melbourne   | Australia   |
| L004       | AU         | Perth       | Australia   |
| L005       | AU         | Sydney      | Australia   |
| L006       | AU         | Sydney      | Australia   |
| L007       | NZ         | Dunedin     | New Zealand |
| L008       | NZ         | Kingsland   | New Zealand |
| L009       | NZ         | Hamilton    | New Zealand |
| L010       | NZ         | Wellington  | New Zealand |
| L011       | FR         | Paris       | France      |
| L012       | FR         | Rennes      | France      |
| L013       | FR         | Reims       | France      |
| L014       | FR         | Montpellier | France      |
| L015       | FR         | Lyon        | France      |
| L016       | FR         | Nice        | France      |
| L017       | FR         | Grenoble    | France      |
| L018       | FR         | Valenciennes| France      |
| L019       | FR         | Le Havre    | France      |
+------------+------------+-------------+-------------+
19 rows in set (0.00 sec)
```

This user guide shows and describes how the database is implemented with the commands given. We can retrieve the data we want from the tables that we have created.