

# ISLAMIC UNIVERSITY OF TECHNOLOGY



## DATABASE MANAGEMENT SYSTEMS LAB

CSE 4308 / CSE 4174

---

## Lab 2

---

*Author:*

Ishmam Tashdeed  
Zannatun Naim Sristy  
Lecturer  
CSE, IUT

# Contents

1	Lab Task	2
---	----------	---

# 1 Lab Task

**Note:** You have to write all SQL statements in an editor first and save them with `.sql` extension. Then execute the SQL script using SQLPlus. Before starting the tasks, login to an already existing user in SQLPlus.

1. Write SQL statements to create the following tables with the given specifications:

- TEAM

Column Name	TEAM_ID	NAME	BUDGET
Type	VARCHAR2	VARCHAR2	FLOAT
Constraints		Not Null	Not negative

- DRIVER

Column Name	DRIVER_NO	DRIVER_NAME	DRIVER_CITY
Type	VARCHAR2	VARCHAR2	VARCHAR2
Constraints	PRIMARY KEY	NOT NULL	

2. Populate the TEAM and the DRIVER table as:

TEAM ID	NAME	BUDGET
1	Ferrari	120000.00
2	Redbull	200000.50
3	McLaren	100000.00
4	Mercedes	93000.70

DRIVER_NO	DRIVER_NAME	DRIVER_CITY
C-101	Max	Amsterdam
C-102	Piastrri	Melbourne
C-103	Norris	Bristol
C-104	Leclerc	Monte Carlo
C-105	Hamilton	Bristol

3. Write SQL statements to perform the following alterations:
  - Add a new column 'DATE\_OF\_BIRTH' (DATE type) in DRIVER table.
  - Rename the attribute DRIVER\_NO from DRIVER table to DRIVER\_ID.
  - Add a PRIMARY KEY constraint to TEAM\_ID column from TEAM table.
4. Write SQL statements to answer the following queries:
  - Find all teams with balance greater than that of 'Ferrari'.
  - Show all the drivers that are not from 'Bristol'.
  - Update the table such that driver 'C-101' changes their city to 'Sydney'.
  - Decrease the budget of those teams by 25% who have it greater than that of 'McLaren'.
  - Team '3' has transferred 20000.00 from their budget to team '2'. Update the table to reflect the change.
5. Management has decided to purge all of the teams having balance less than that of team '4'. Delete those entries from the TEAM table.
6. Drop the 'TEAM' and 'DRIVER' table.
7. **BONUS:** These tasks are not mandatory to complete and will add bonus marks if completed:
  - Add an additional column to the 'TEAM' table named 'DRIVER\_ID'. Map the drivers from the 'DRIVER' table such as 1  $\rightarrow$  C-104, 3  $\rightarrow$  C-102 & C-103, 2  $\rightarrow$  C-101, and 4  $\rightarrow$  C-105.
  - Show the name of the drivers who have less than 200000 in their team budget.