

## Database (Phase 2 Requirements)

### Phase 2 Deadline: 20-5-2022 (11:59 PM)

#### Phase 2: Implementation

Each team should deliver the following requirements for the assigned project idea:

There must be 2 different forms using ODP.Net with different functionalities depending on the project idea and 2 different Crystal reports

**A. *Using ODP.Net connected mode (OracleConnection and OracleCommand) to:***

1. Select rows from DB using bind variables and command parameters
2. Insert rows (without using procedures)
3. Select ONE row from DB using stored Procedures (**without using sysRefCursor [use out parameters of number data type]**)
4. Select multiple rows from DB using stored procedures.

**B. *Using ODP.Net Disconnected mode (OracleDataAdapter and Dataset) to:***

1. Select certain rows for a given value entered by the user on the form
2. Update using oracle command builder

**C. *Using crystal reports to create reports with:***

1. Grouped columns / Summarized columns
2. Using Parameters
3. Calling reports from C#

**D. *GUI:***

There should be a main form containing menus to open all forms and reports of the project

## **Delivery Instructions**

- Team leader should submit the RAR or ZIP file Contains the Project Folder to the submissionform in the below link:

<https://forms.gle/3tViGuTcjMEL9y339>