

Project Guidelines:

- **PROJECT REPORT (ONE SOFT COPY PER GROUP, USE **PDF FORMAT**)**

Cover Page

-AIUB logo

-Project Name

-Group Members NAME, ID and Contribution (contributed percentage and topic names)

-Course Name and Section

Contents

-Make sure your report has a contents page

-Make sure all the pages of your report are numbered in accordance with the contents page

Introduction

-Give a short introduction to your project in non-technical terms

Project Proposal

-Explain the project you are proposing

-For this section search all resources accessible to you and utilize accordingly

User Interface Planning

-Design the Interface through which End Users can communicate with the database

-To design the interface, you can use any application software of your choice (DIA, VISIO, FIGMA, MS WORD etc.)

-During final term the design must be implemented using a programming language ((Java, C# etc.)

Scenario Description

-Briefly describe your database (see ERDiagramTutorial slide 18 for reference)

ER Diagram

-Draw with proper annotations (DIA, VISIO, MS WORD etc.)

- For reference see ERDiagramTutorial slide 20

Normalization

-Up to 3rd NF (see NormalizationTutorial slide 13-18 for reference)

-Include all detailed steps

Schema Diagram

-After normalization draw schema diagram with proper annotations

-For reference see CT1.docx

Table Creation Using SQL

-After Normalization create tables. Use sequence to maintain primary key in all the tables

-Include constraints when creating Tables (primary key, foreign key etc.)

-Include screenshots of the created table using describe command

-All screenshots MUST include the DATE and TIME feature from the screen of the machine (PC, Laptop etc.) used

-Also include the queries required to create or alter the table, sequence

-Create users, assign roles and grant privileges as deemed necessary and include screenshots of the queries

Data Insertion Using SQL

-For each created table insert at least 5 rows of data

-Include screenshots of the tables after inserting data

-All screenshots MUST include the DATE and TIME feature from the screen of the machine (PC, Laptop etc.) used

-Include the queries required to insert the data

Query Writing Using PL/SQL (Write down the question and the answer. Give full screenshot of the Oracle 10g Homepage that contains the answer and result)

-All screenshots MUST include the DATE and TIME feature from the screen of the machine (PC, Laptop etc.) used

-All PL/SQL code MUST start with a comment mentioning the project name, semester, course name and section

Basic PL/SQL

-2 variables

-2 operators

-2 single-row function

-2 group function

-2 loop

-2 conditional statements

-2 subquery

-2 joining

Advance PL/SQL

- 2 stored function
- 2 stored procedure
- 2 table-based record
- 2 explicit cursor
- 2 cursor-based record
- 2 row level trigger
- 2 statement level trigger
- 2 package

Conclusion-Summarize your project findings and propose future work i.e. How do you plan to improve your existing project?

• PROJECT DEMO

- MUST bring at least one laptop per group
- During Viva session you must demonstrate all details of your project work within 15 minutes (This can be done by only one student selected by the group/ all group member/ or any way the group members deem fit)
- All tables you mentioned in your project report must exist in installed Oracle 10g

• PROJECT VIVA/VIVA

- VIVA is individual i.e., the group members will get marks based on their individual performance
- VIVA is MANDATORY for all group members
- Questions will be asked regarding project to every group member
- Questions will be asked regarding course related topics to every group member
- Students failing to attend VIVA will attain 0 marks not only for VIVA but also for project

****Important Dates**

1. Report Submission Deadline (Upload, Softcopy): **24th August 2025, 8:00am.**
2. Project Demo+Viva during Project Week (Student MUST bring MID TERM EXAM PERMIT)→

Date:

24th August 2025 [Sunday]during class time

OR

25th August 2025 [Monday]during class time

OR

26th August 2025 [Tuesday]during class time

3. During Project Week you need to be present in class ONLY during your allocated Project Demo+Viva Date