

# 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

## 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, 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.)

## Normalization

-Up to 3<sup>rd</sup> NF (see NormalizationTutorial slide 13-18 for reference)

-Include all detailed steps

## Table Creation

-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

-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 (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 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**

- Report Submission Deadline (Upload, Softcopy): **5<sup>th</sup> May 2025, 11:59pm.**
- Project Demo+Viva (Student MUST bring MID TERM EXAM PERMIT), Date: **6<sup>th</sup> May 2025** [Tuesday]during class time.)