

# Project Guidelines:

## PROJECT REPORT (ONE SOFT COPY PER GROUP, USE MICROSOFT OFFICE WORD DOCUMENT)

### Cover Page

- AIUB logo
- Project Name
- Group Members NAME & ID
- 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

- Shortly describe your project

### Scenario Description

- Shortly describe your database (see Lecture05\_ERModel\_part1 slide 18 for reference)

### ER Diagram

- Draw with proper annotations (use DIA, VISIO, MS WORD etc.)
- For reference see Example\_ERD.pdf

### Normalization

- Normalize upto 3<sup>rd</sup> Normal Form(see Lecture12\_Normalization slide 12-17 for reference)
- Include all detailed steps as discussed during class lecture

### Schema Diagram

- After Normalization draw schema diagram with proper annotations
- For reference see Final Term Assignment

For  
Midterm

### Table Creation

- After Normalization create tables
- Include constraints when creating Tables (primary key, foreign key etc.)
- Include screenshots of the created table using describe command
- Include the queries required to create or alter the tables
- Include the queries required to create 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
- Include the queries required to insert the data

### Query Writing (Write down the question and also the answer. Give screenshot of the result of the query)

- 2 single-row function
- 2 group function
- 2 subquery
- 2 joining
- 2 view

### Relational Algebra (Write down the question and also the answer)

- 5 relational algebra

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