**King Saud University**

**College of Applied Studies and Community Service**

**GC311: Database Concepts**

2nd Semester 1436-1437 H

*Paste your project logo*

**Your real life Project name**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **NAME** | **SN** | **Section #** |
| *Stud. id* | *Write the student name* | *your serial #* | *your section #* |
| *Stud. id* | *Write the student name* | *your serial #* | *your section #* |

**Supervised By:**  *your Supervisor Name.*

**Project Description:**

*Write a short description of the database application you propose to work with throughout the project. i.e. who is your client, what are the activities or services provided and so on.*

**Data Requirements:**

*Write the data requirements of this project that describes the* ***entities in your project*** *(at least 7 entities****)*** *and its related data, relations and transactions for each entity (Attributes, relationship, and multiplicity). Refer to* ***Appendix A*** *in your text book “Database Systems: A Practical Approach to Design, Implementation and Management”, for a detailed example that you have to follow.*

**Transaction Requirements:**

*Refer to* ***Appendix A*** *in your text book “Database Systems: A Practical Approach to Design, Implementation and Management”, for a detailed example that you have to follow.*

**Data Entry:**

*List 3 insert transactions* ***related to your project.***

**Data update/deletion:**

*List 3 delete/update transactions* ***related to your project.***

**Data Queries:**

*List 10 retrieval transactions* ***related to your project.***

**Entity relationship diagram (ERD):**

*Draw an ER according to your project requirements that includes Entities, Relationship, Attributes, Cardinality and Multiplicity.*

*Draw it* ***in a single page*** *using the RSA (****NOT by hand****)*

**Relational Schema:**

*Map the ERD to a relational schema and identify the Primary key and Foreign keys.*

**Data Dictionary showing description of all entities:**

|  |  |
| --- | --- |
| **Entity Name** | **Description** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

**Data Dictionary showing description of all relationships:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Entity Name** | **Multiplicity** | **Relationship** | **Entity Name** | **Multiplicity** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

**Data Dictionary showing description of all attributes:**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Entity Name** | **Attribute** | **Description** | **Data Type** | **Length** | **Nulls** | **Multi-Valued** | **Default Value** | **Range** | **CK** | **PK** |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |

**DB tables creation commands:**

*List all the DDL statements that are used to create your DB tables.*

**Data insertion commands:**

*List all the DML statements that are used to insert data into the created DB tables.*

**Data Queries commands and outputs:**

*List the* ***DML statements*** *for Data Queries that selected from your data queries list.*

*Each DML command has to be followed by the resulted output from the execution as a print screen or you can just copy and paste the result.*

**Work Distribution:**

|  |  |  |  |
| --- | --- | --- | --- |
| **WORK** | **Percentage** | **ID** | **NAME** |
| *Write the work(s) this student did* | *Percentage of work* | *Stud. id* | *Write the student name* |
| *Write the work(s) this student did* | *Percentage of work* | *Stud. id* | *Write the student name* |
| *Write the work(s) this student did* | *Percentage of work* | *Stud. id* | *Write the student name* |
| *Write the work(s) this student did* | *Percentage of work* | *Stud. id* | *Write the student name* |
| *Write the work(s) this student did* | *Percentage of work* | *Stud. id* | *Write the student name* |
| *Write the work(s) this student did* | *Percentage of work* | *Stud. id* | *Write the student name* |