**King Saud University**

**College of Applied Studies and Community Service**

**Csc1203- introduction to database**

1st Semester 1435-1436 H

*Paste your project logo*

**Your real life Project name**

**The view name**

**Phase # 1, 2, & 3**

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

**View Description:**

*Write a short description of this database view of your application. You should specify who will use this view, what is their responsibilities and what the data they are interested to know about (IN GENERAL).*

**Data Requirements:**

*Write the data requirements of this view that describes the* ***entities in your view*** *(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 4 insert transactions* ***related to your view.***

**Data update/deletion:**

*List 6 delete/update transactions* ***related to your view.***

**Data Queries:**

*List 20 retrieval transactions* ***related to your view.***

**Enhanced entity relationship diagram (EER):**

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

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

**Data Queries:**

*List the* ***data queries*** *only, for all views in a single list (1-20).*

**Transaction Pathway:**

*Draw the transaction pathway in a single page for all data queries on a separate EER. Refer to the data queries as identified in the previous part.*

**Relational Schema:**

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

**Normalization:**

*Normalize your schema to the 3rd normal form and show the details.***Data Dictionary showing description of all entities:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Entity Name** | **Description** | **Aliases** | **Occurrence** |
|  |  |  |  |
|  |  |  |  |

**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** |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |

**Work Distribution:**

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