# RDB Mini Project: Check List and Team Member Contribution Form

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| **Team Number:**  **Project Name:** | | | | | | | | |
|  | **Criteria** | **WEIGHT** | **DESCRIPTION** | **EXCELLENT**  **(10 PTS)**  **ALL** | **SATISFACTORY**  **(7 PTS)**  **MOST** | **BORDERLINE**  **(4 PTS)**  **SOME** | **INSUFFICIENT**  **(1 PT)**  **NONE** | **SCORE \* WEIGHT** |
| **INTERESTING Project Idea** | | | | | | | | |
| **1.** | **Project Idea:**  *Project Topic, Description & Requirements* | 10% | The project idea shows the following:   * interesting, challenging, creative and reflecting a real-world scenario. * The project description is clearly identified. * Application, data requirements, data constraints and business rules are clearly defined, realistic and well-research. * Important usage scenarios and queries are properly defined:   + Important insert, update, delete operations and transactions (minimum 10 operations each);   + Identifying important data inquiries and reports (minimum 20 inquiries or reports); |  |  |  |  |  |
| **DB DESIGN and DEVELOPMENT** | | | | | | | | |
| **2.** | **Conceptual and Logical Design:** *Appropriateness and accuracy of Design* | 35% | The conceptual design (ER model) has the following:   * 100% accuracy * Capture all data requirements explained in the proposal * Easy to understand with a nice diagram layout * Follow proper naming convention for the entity names, attribute names, relationship names.   The logical design (relational schema, data dictionary and SQL scripts for table creation and queries) has the following:   * Schema and Data dictionary is accurate (corresponding to the conceptual design) * Properly define data types for all attributes (with careful domain analysis) * Properly define the PKs for all tables * Properly define the FKs for all tables * Properly define all integrity constraints, and business rules, as defined in the Project Proposal   The design is tested with practical, sample data. |  |  |  |  |  |
| **3.** | **Implementation & Demonstration** | 35% | * The implemented operations, transactions and queries completely fulfils the project requirements (set at the proposal stage), is practical and useful in a real-world scenario. * The implementation is well demonstrated. It is interesting and effective in conveying ideas. * Selected usage scenarios and queries are correctly written in SQL statements and are tested. |  |  |  |  |  |
| PRESENTATION | | | | | | | | |
| **4.** | **Presentation & Communication:** *The oral presentation does not exceed the time allotment. It is tight, focused, and clearly explains the project.* | 20% | * Oral presentation keeps to the time limit and is focused. * Main ideas are expressed clearly and convincingly. * Q&A session is well managed and questions can be properly addressed. |  |  |  |  |  |

# Work Distribution and Contribution

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| **Task** | **Member#1**  **[Name]** | **Member#2**  **[Name]** | **Member#3**  **[Name]** | **Member#4**  **[Name]** | **Member#5**  **[Name]** |
| **1. Project Proposal:**  *Project Topic, Description & Requirements* |  |  |  |  |  |
| **2. Conceptual and Logical Design** |  |  |  |  |  |
| **3. Final Presentation** |  |  |  |  |  |

**For each data operation/query, specify its type regarding the syntactic dimension and semantic dimension as well as the members who implement it.**

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| --- | --- | --- | --- | --- | --- |
| **Data Operation/Query** | **Query Type : Syntactic Dimension** | | **Query Type : Semantic Dimension** | | **Implementer** |
| **I/U/D?** | **BR/JOIN/GROUP?** | **OTP?** | **BP/BT/CA/PA/REC** |
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| …. |  |  |  |  |  |

**Remark:**

**Types of SQL Statement: Syntactic Dimension**

* (I) Insert, (U) Update, (D) Delete
* Retrieval
* (BR) Basic Retrieval
* (JOIN) Join Query / Nested or Subquery
* (GROUP) Aggregate Query

**Semantics Dimension**

* (OPT) Basic Operation/Transaction Support
* Data Intelligence and Customer Insight Support
* (BP) Business Performance Analysis
* (BT) Basic Trend Analysis
* (CA) Customer Analysis
* (PA) Product Analysis
* (REC) Suggestion or Recommendation of Products / Services to Users using history data