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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Team Number: 7**  **Project Name: E-Commerce Clothes Shopping System** | | | | | | | | |
|  | **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**  **(Individually evaluated)** | 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**  **(Individually evaluated)**  *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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Task** | **Member#1**  **[Varun Palkuru]** | **Member#2**  **[Todsavad Tangtortan]** | **Member#3**  **[Sandhya Laminchane]** | **Member#4**  **[Aiman Lameesa]** | **Member#5**  **[Kyi Khaing Nyein]** |
| **1. Project Proposal:**  *Project Topic, Description & Requirements* | 30% | 15% | 20% | 20% | 15% |
| **2. Conceptual and Logical Design** | 10% | 30% | 10% | 20% | 30% |
| **3. Final Presentation** | 20% | 20% | 20% | 20% | 20% |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Data Operation/Query** | **Query Type : Syntactic Dimension** | | **Query Type : Semantic Dimension** | | **Implementer** |
| **I/U/D?** | **BR/JOIN/GROUP?** | **OTP?** | **BP/BT/CA/PA/REC** |
| 1. Insert a new customer | I |  | OTP |  | Varun Palkuru |
| 1. Insert a new product item | I |  | OTP |  | Todsavad Tangtortan |
| 1. Insert a new order | I |  | OTP |  | Kyi Khaing Nyein |
| 1. Update product Items | U |  | OTP |  | Aiman Lameesa |
| 1. Update the address of the customer | U |  | OTP |  | Sandhya Lamichhane |
| 1. Update the product review description | U |  | OTP |  | Varun Palkuru |
| 1. Update orders when product is cancelled | U |  | OTP |  | Todsavad Tangtortan |
| 1. Delete existing product item | D |  | OTP |  | Kyi Khaing Nyein |
| 1. Delete existing customer | D |  | OTP |  | Aiman Lameesa |
| 1. Delete an existing product review | D |  | OTP |  | Sandhya Lamichhane |
| 1. Segregate storename by rating | D |  | OTP |  | Varun Palkuru |
| 1. Match the customer store and state |  | BR | OTP |  | Todsavad Tangtortan |
| 1. Find out who is the most loyal customers (more than 10 orders and 500 point) |  | JOIN / GROUP |  | CA | Kyi Khaing Nyein |
| 1. List the expensive product from each vendor |  | JOIN / GROUP |  | REC | Aiman Lameesa |
| 1. Analysis of First quarter of 2020 |  | JOIN / GROUP |  | BP | Sandhya Lamichhane |
| 1. Analysis of Second quarter of 2020 |  | JOIN / GROUP |  | BP | Varun Palkuru |
| 1. Analysis of Third quarter of 2020 |  | JOIN / GROUP |  | BP | Todsavad Tangtortan |
| 1. Analysis of Fourth quarter of 2020 |  | JOIN / GROUP |  | BP | Kyi Khaing Nyein |
| 1. Total revenue generated by each vendor |  | JOIN / GROUP |  | BP | Aiman Lameesa |
| 1. Which state has most order |  | JOIN / GROUP |  | BP | Sandhya Lamichhane |
| 1. Which vendor has the most amount ordering 1st quarter of 2022 |  | JOIN / GROUP |  | BP | Varun Palkuru |
| 1. Which product categories has the most sale |  | JOIN / GROUP |  | PA | Todsavad Tangtortan |
| 1. List the top 5 states with the highest amount of online orders |  | JOIN / GROUP |  | BP | Kyi Khaing Nyein |
| 1. top 5 popular vendor according to the state |  | JOIN / GROUP |  | BP | Aiman Lameesa |
| 1. top 5 least popular vendor according to the state |  | JOIN / GROUP |  | BP | Sandhya Lamichhane |
| 1. Show the number of items with each vendors |  | JOIN / GROUP |  | BP | Varun Palkuru |
| 1. Match the customer and store and state |  | JOIN / GROUP |  | REC | Todsavad Tangtortan |
| 1. Which state has the most returned product |  | JOIN / GROUP |  | PA | Kyi Khaing Nyein |
| 1. The Customer with most amount of cancelled orders |  | JOIN / GROUP |  | CA | Aiman Lameesa |
| 1. List the vendor with low rating |  | JOIN / GROUP |  | BP | Sandhya Lamichhane |
| 1. List the names of the customers who are spending more than 50,000 in 2021 |  | JOIN / GROUP |  | CA | Varun Palkuru |
| 1. Average product rating for product that has been reviewed |  | JOIN / GROUP |  | PA | Todsavad Tangtortan |
| 1. What is the common returned reason |  | BR / GROUP |  | PA | Kyi Khaing Nyein |
| 1. Top 5 states with most unreliable stores |  | JOIN/ GROUP |  | BP | Aiman Lameesa |
| 1. Orders count sorted by ordered time |  | SUBQUERY |  | BP | Sandhya Lamichhane |

**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 | **Types of SQL Statement: Semantics Dimension**   * (OPT) Basic Operation/Transaction Support * Management Information, 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 |