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

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| **Team Number: Team 1**  **Project Name: FurnitureHub** | | | | | | | | |
|  | **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

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| **Task** | **Member#1** | **Member#2** | **Member#3** | **Member#4** |
| **1. Project Proposal:**  *Project Topic, Description & Requirements* | Project Description  Data Operations  Inquiries  Report | Project Description  Data Operation  Inquiries  Report | Project Description  Business Rules  inquiries  Report | Project Description  Business Rules  inquiries  Report |
| **2. Conceptual and Logical Design** | Created the ER diagram as well as the Conceptual diagram  Created the Mock data for the user, category and product table.  Wrote Queries for the Inquiries, Reports and for creating 2 tables. | Created ER diagram  Created mock data for the buy\_order\_history and return\_amt table.  Wrote queries for the Update Inquiries, Reports and for creating 5 tables | Created ER diagram  Created mock data for the rent\_order\_history, Review and fine table.  Wrote queries for the Inquiries, Reports and for creating 2 tables. | Created ER diagram  Created mock data for the payment, warehouse and delivery\_service table.  Wrote queries for the Inquiries, Reports and for creating 2 tables. |
| **3. Final Presentation** | Initialized the presentation file, setting up the style and format. Uploaded the screenshots of Queries and conceptual diagram.  Implemented all the basic operation | Uploaded the screenshots of update queries and ER diagram.  Implemented operations for all the update queries also implemented few queries for data operation. | Wrote 10 queries  Problems faced during the project implementation.  Reviewing others' work and sharing ideas for more. | Project description, objectives, future work and implemented a few queries.  Reviewing others' work and sharing ideas. |

**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** |
| 1. Customer is looking for Wood furniture below $2000 |  | BR | OTP |  | Member#1 |
| 1. Suggestions for Living room Sofa below $2500 |  | BR | OTP |  | Member#1 |
| 1. Customer searched for Kitchen cutting board |  | BR | OTP |  | Member#1 |
| 1. Customer looked for beds |  | BR | OTP |  | Member#1 |
| 1. Customer searched for Kitchen cabinets |  | BR | OTP |  | Member#2 |
| 6. Customer is looking for Wooden chair for dining room |  | BR | OTP |  | Member#2 |
| 7. Customer is looking for Dressing table below $1500 |  | BR | OTP |  |  |
| 8. Center table for hall |  | BR | OTP |  |  |
| 9. Admin wants to know who brought the dining table from a specific region. |  | BR/JOIN |  | CA |  |
| 10. To find the most sold items comparing kitchen, bedroom, living room or dining room. |  | JOIN/GROUP |  | PA |  |
| 11. Finding the max sold furniture item in one city or region |  | JOIN |  | BP/PA |  |
| 12. Finding the minimum number of type of furniture |  | JOIN |  | BPA |  |
| 13. Finding the user who is a regular customer |  | JOIN/GROUP |  | CA |  |
| 14. Finding the gender of the customer who buys more of living room furniture |  | JOIN |  | BT/CA |  |
| 15. Number of king size bed purchased during a certain time period |  | JOIN |  | BT |  |
| 16. Finding the least purchased furniture by customers. |  | JOIN |  | BT/PA |  |
| 17. Finding the most rented furniture by customers. |  | JOIN |  | BT |  |
| 18. Searching the products according to the price range |  | BR |  | PA/REC |  |
| 19. Searching for the style of furniture (modern, traditional). |  | BR | OTP | PA |  |
| 20. Finding the minimum of item to be refilled in each category |  | JOIN |  | BT/PA |  |
| 21. Find the warehouse location that relate to the buy id |  | JOIN |  | BP/PA |  |
| 22. Suggesting user for which product to buy |  | JOIN/GROUP |  | REC |  |
| 23. Updating the user region | U | BR |  |  |  |
| 24. Updating the product status | U | BR |  |  |  |
| 25. Updating the discount price of a product | U | BR |  |  |  |
| 26. Updating the quantity of product when new product comes. | U | BR |  |  |  |
| 27. Updating renewal and expiry date of rented item from user | U | BR |  |  |  |
| 28. Deleting review of a user | D | JOIN |  |  |  |
| 29. Deleting the discount of a certain product | D | JOIN |  |  |  |
| 30. Deleting a product | D | BR |  |  |  |
| 31. Inserting a new value into user | I | BR |  |  |  |

**Remark:**

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