**User Document for CS3365 Team Project - Small Business Database Software**

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**Github Link:** https://github.com/robertkirkman/business-database-cs3365

**Goal:** Fulfil the order record-keeping and client information needs of a small business using a straightforward relational database.

**Potential Users:** Any small office or business, local governments, non-profit organizations, simulation, and academic purposes, open-source community developers.

**Use Cases:**

**Use Case Name:** Query Field

**Use Case Description:** Retrieve information from a specified cell in the current working table and display the contained information for the client.

**System:** Small Business Database

**Actors:** Client

**Stimulus:** The client has decided on a field and row (row and column) to retrieve, and has typed the command to query that field with the correct parameters.

**Response:** The desired information has been retrieved from the database and successfully displayed for the client, or error message if information not available.

**Normal Flow:**

1. The client types desired information in the query command using the correct syntax.
   1. An error message will return if the syntax is incorrect
2. The system uses the provided information to search the current working table(s) for the desired data.
3. Either the system identifies matching data and displays it to the client, or a null return message will appear

**Use Case Name:** Modify Field

**Use Case Description:** Change information in or delete information from a specified cell in the current working table.

**System:** Small Business Database

**Split Use Case:**

* **Unrestricted Entries:**
  + **Actors:** Client
  + **Stimulus:** The client has decided to change or delete information within the database they have created or uploaded using the software
* **Restricted Entries:** 
  + **Actors:** Administrator
  + **Stimulus:** The administrator has decided to change or delete the information contained in a restricted cell in the current working table that only the administrator has editing permissions for, and has the field, row, and information for the cell, if applicable.

**Response:** The information in the cell is modified to reflect the desired changes.

**Normal Flow:**

1. The user selects the command to change information within their database
2. The user then inputs the table, natural key, and attribute in which they want to modify
3. The system will return a message if the information desired has been found
4. The user selects if they would rather change or delete information from that table
   1. If change: The user will type in the new information within that field
   2. If delete: The user will confirm if the information or the row will be deleted
5. A return message from the system will show if the modification has been completed

**Use Case Name:** Export CSV

**Use Case Description:** Create a comma-separated values (CSV) file containing all the data listed in the current working table and present the file to the client.

**System:** Small Business Database

**Actors:** Client

**Stimulus:** The client wants to back up all the data from the current working table into a different application or a universal format, here facilitated by a comma-separated values plaintext file.

**Response:** All values in all fields in the current working table are formatted into a plaintext ASCII comma-separated values file and this file is presented to the client for storage or use outside of the system.

**Normal Flow:**

1. The client types the export command correctly.
2. The system retrieves all the data from the current working table and formats it into a CSV file.
3. The system presents the CSV file to the client in a plaintext format

**Use Case Name:** Change table on the user’s screen

**Use Case Description:** Change the current table to either the Orders table or the Client Customers table, the two tables that will be implemented.

**System:** Small Business Database

**Actors:** Client

**Stimulus:** The client wants to query or modify view fields in a table that is not currently selected.

**Response:** The current working table is updated to reflect the desired change

**Normal Flow:**

1. The client decides which table they want to query or modify.
2. The client types that table’s parameter in conjunction with the change working table command using the correct syntax.
3. The system matches the provided information to the desired table name.
4. The system switches the client’s current working table to the specified selection.

**Contribution:**

Robert Kirkman: Modify Field Use Case

Connor Irvine: Query Field Use Case

Lora Milam: Export Use Case