

The program was created using Netbeans 9.0. It contains one java file ('MyDatabase.java') which contains all the code.

To run a query the input should be a number between 1 and 10, which will execute the corresponding query.

The contents of the database were dumped to an external file ('sqlDump.sql').

```
C:\Windows\System32\cmd.exe - sqlite3 Project.db
Microsoft Windows [Version 10.0.18362.720]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\User\Desktop\coe848\lab5\project>sqlite3 Project.db
SQLite version 3.31.1 2020-01-27 19:55:54
Enter ".help" for usage hints.
sqlite> .output sqlDump.sql
sqlite> .dump
sqlite> _
```

While one of my tables only has 7 entries, other tables have over 10 entries, so with a total of 12 tables I have over 120 entries in total ($12 \times 10 = 120$).

Query 1. Which warehouses provide this item

Enter 1 for query 1. Then enter the name of the item. The name of the item is case sensitive. (i.e. for the book "Intro to Data Engineering" it must be capitalized as such).

```
Please enter the number query you want:
Enter '-1' to quit, '-2' for help
1
Enter name of item to search for:
jeans

Results:
> warehouse1
> warehouse5
```

Query 2. Which company sells this item

Enter 2 for query 2. Then enter the name of item (case-sensitive).

```
Please enter the number query you want:
Enter '-1' to quit, '-2' for help
2
Enter name of item to search for:
pen

Results:
> Zellers
```

Query 3. Lowest price I can get this product at, and which store

Enter 3 for query 3. Then enter the name of the item (case-sensitive).

```
Please enter the number query you want:
Enter '-1' to quit, '-2' for help
3
Enter name of item to search for:
dictionary

Results:
> Store: Hudsons Bay costing $10.0
```

Query 4. Items in database with the same type

Enter 4 for query 4. Then enter the type of the item (case-sensitive).

```
Please enter the number query you want:
Enter '-1' to quit, '-2' for help
4
Enter type of item to search for:
Education

Results:
> Intro to Data Engineering
> pen
> dictionary
```

Query 5. Number of items in warehouse

Enter 5 for query 5. Then enter the name of warehouse (case-sensitive). This returns the total number of items (quantity) in the warehouse.

```
Please enter the number query you want:
Enter '-1' to quit, '-2' for help
5
Enter name of warehouse:
warehouse10

Results:
> 100
```

Query 6. Number of a specific item in warehouse

Enter 6 for query 6. Then enter the name of the warehouse, followed by the name of the item (both are case-sensitive).

```
Please enter the number query you want:
Enter '-1' to quit, '-2' for help
6
Enter name of warehouse:
warehouse6
Enter name of item:
lettuce

Results:
> Quantity: 40000
```

Query 7. Item with largest quantity in a warehouse

Enter 7 for query 7. Then enter the name of the warehouse (case-sensitive).

```
Please enter the number query you want:
Enter '-1' to quit, '-2' for help
7
Enter name of warehouse:
warehouse1

Results:
> jeans. Quantity: 40000
```

Query 8. Number of unique companies, warehouses, items in database

Enter 8 for query 8. This has no input.

```
Please enter the number query you want:
Enter '-1' to quit, '-2' for help
8

Results:
> Total number of Warehouses, Companies, Items: 30
```

Query 9. Which store has the most of this item

Enter 9 for query 9. Then enter the type of the item (case-sensitive).

```
Please enter the number query you want:
Enter '-1' to quit, '-2' for help
9
Enter item name:
laptop

Results:
> Walmart. Quantity: 250
```

Query 10. Which Warehouses are located at this location

Enter 10 for query 10. Then enter the name of the city (case-sensitive).

```
Please enter the number query you want:
Enter '-1' to quit, '-2' for help
10
Enter location:
New York City
```

```
Results:
> warehouse2
> warehouse8
> warehouse9
```

Input: -1. Quit

Enter -1 to quit. Closes the connection to the database, closes the scanner and exits the program.

```
Please enter the number query you want:
Enter '-1' to quit, '-2' for help
-1
BUILD SUCCESSFUL (total time: 27 seconds)
|
```

Input: -2. Show help

Enter -2 to show the list of commands.

```
Please enter the number query you want:
Enter '-1' to quit, '-2' for help
-2
List of Queries:
1. Which warehouses provide this item
2. Which company sells this item
3. Lowest price I can get this product at, and which store
4. Items in store with same type
5. Number of items in warehouse
6. Number of specific item in warehouse
7. Item with largest quantity in a warehouse
8. Number of unique companies, warehouses, items in database
9. Which store has the most of this item
10. Which Warehouses are located at this location
-1. Quit
-2. Show help
```

```
Please enter the number query you want:
Enter '-1' to quit, '-2' for help
```