INSTRUCTIONS TO RUN DAVISBASE

- Open Command Prompt.
- Go to the current folder where the "DavisBase.java" is present.
- Compile using the command: "javac DavisBase.java". It'll create all the classes.
- Run the program by the command: "java DavisBase". It'll create the data folder for storage.

```
Microsoft Windows [Version 10.0.18363.959]
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C:\Users\userr>cd C:\Users\userr\OneDrive\Desktop\Summer2020\DbDesign\Project\test\c

C:\Users\userr\OneDrive\Desktop\Summer2020\DbDesign\Project\test\c>javac DavisBase.java

C:\Users\userr\OneDrive\Desktop\Summer2020\DbDesign\Project\test\c>java DavisBase
```

The program will start with the following display:

```
Welcome to DavisBase.
Type "help;" to display supported commands.
Use ";" at the end of each command.
```

Type "help;" to display the supported commands:

```
RKsql> help;
SUPPORTED COMMANDS :
                                                                 П
SHOW TABLES;
       Display all the tables in the database.
CREATE TABLE table_name (<column_name datatype> <NOT NULL/UNIQUE>);
       Create new table in the database.
DROP TABLE table_name;
       Remove table.
INSERT INTO table_name VALUES (value1,value2,....);
       Insert new row into table. Column1 is always primary key
       which is inbuilt and increments automatically.
DELETE FROM TABLE table_name WHERE row_id = key_value;
       Delete a record from the table whose rowid is <key value>.
UPDATE table_name SET column_name = value WHERE condition;
       Modifies the records in the table.
SELECT * FROM table_name;
       Display all records from table.
SELECT * FROM table_name WHERE column_name operator value;
       Display records from table where given condition is satisfied.
HELP;
       Show supported commands.
EXIT;
       Exit program.
 ****************************
```

COMMANDS:

SHOW TABLES;

This will list all the tables stored in the data.

CREATE TABLE table_name (<column_name datatype> <NOT NULL/UNIQUE>);

This will create a table with the name provided in **table_name** and with columns as described.

SELECT * FROM Dogs;

This will display the contents of the table.

Note: The program will notify if the table is empty.

INSERT INTO DOGS VALUES (933,Rover,20.6,4);

This will insert values into the table.

Insert command also checks for unique ID for the entries. It won't accept duplicate ID's

```
RKsql> INSERT INTO DOGS VALUES (933,Rover,20.6,4);
RKsql> INSERT INTO DOGS VALUES (933,Denver,25.0,3);
Uniqueness constraint violation
RKsql>
```

DROP TABLE Dogs;

This will delete the table with the given name.

Insert all the values in the table one by one.

Check the table by SELECT command.

```
RKsql> SELECT * FROM Dogs;
id
                         age
      name
               weight
      rover
               20.6
                         4
RKsql> INSERT INTO DOGS VALUES (8326,Spot,10.8,7);
RKsql> INSERT INTO DOGS VALUES (5359,Lucky,31.2,5);
RKsql> INSERT INTO DOGS VALUES (10355, Dinky, 4.8, 11);
RKsql> INSERT INTO DOGS VALUES (7757, Bruiser, 42.0,6);
RKsql> INSERT INTO DOGS VALUES (3597,Patch,29.6,9);
RKsql> INSERT INTO DOGS VALUES (202,Prince,16.6,7);
RKsql> INSERT INTO DOGS VALUES (1630, Bubbles, 7.1, 1);
RKsql> INSERT INTO DOGS VALUES (11223,Peanut,14.3,2);
RKsql> SELECT * FROM Dogs;
id
        name
                   weight
                             age
10355
        dinky
                   4.8
                             11
933
        rover
                   20.6
                             4
8326
        spot
                   10.8
11223
        peanut
                   14.3
                              2
                             7
202
        prince
                   16.6
                             6
7757
        bruiser
                   42.0
3597
                   29.6
                              9
        patch
1630
        bubbles
                   7.1
                              1
5359
        lucky
                             15
                   31.2
RKsql>
```

SELECT * FROM Dogs WHERE AGE=7;

This will display all the dogs whose age=7;

RKsql> SELECT * FROM Dogs;				
id	name	weight	age	1
10355 933 8326 11223 202 7757 3597 1630 5359	bruiser patch bubbles lucky	16.6 42.0 29.6 7.1 31.2	11 4 7 2 7 6 9 1	
RKsql> SELECT * FROM Dogs WHERE AGE=7;id name weight age				
 8326 202 RKsql>	spot prince	10.8 16.6	7 7	

EXIT;

This will exit from the program.

```
RKsql> EXIT;
Exiting...
C:\Users\userr\OneDrive\Desktop\Summer2020\DbDesign\Project\test\c>
```