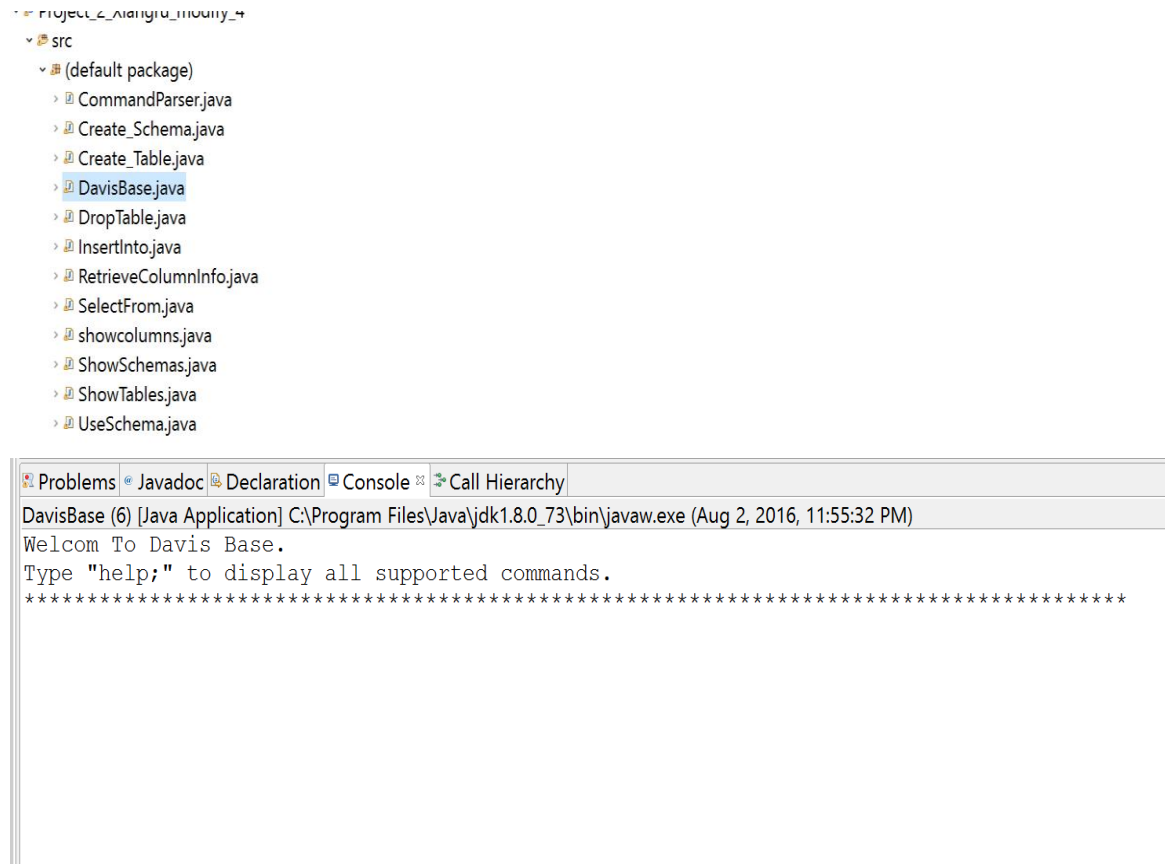


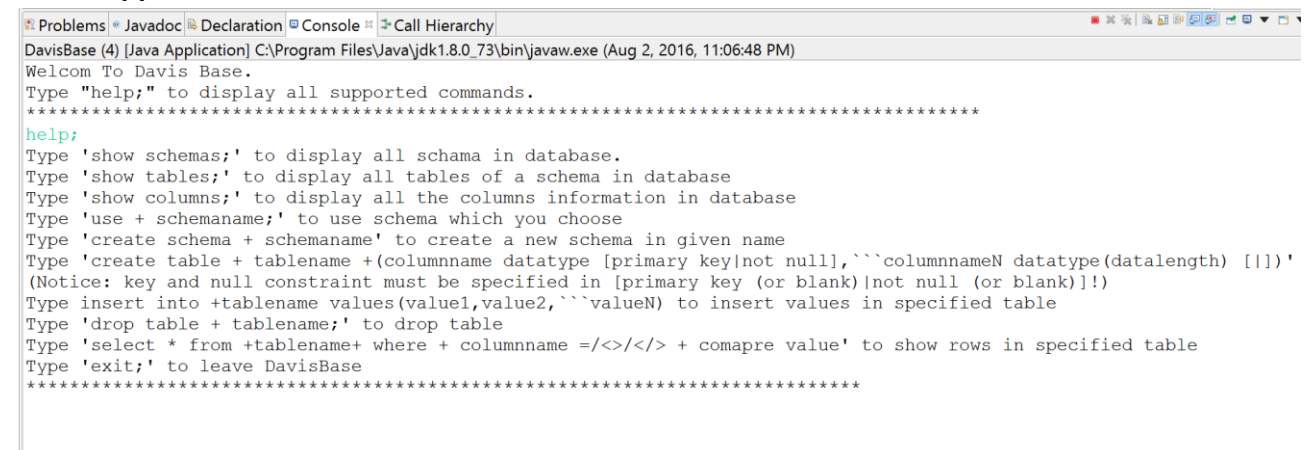
# Quick Start Guide

## Build and Run:

Import the src package and select the “DavisBase.java”, run it as Java Application. In the console, there would show the command lines.



## Show supported commands:



## Create Schema:

```
Welcom To Davis Base.
Type "help;" to display all supported commands.
*****
help;
Type 'show schemas;' to display all schama in database.
Type 'show tables;' to display all tables of a schema in database
Type 'show columns;' to display all the columns information in database
Type 'use + schemaname;' to use schema which you choose
Type 'create schema + schemaname' to create a new schema in given name
Type 'create table + tablename +(columnname datatype [primary key|not null],``columnnameN datatype(datalength) [|])'
(Notice: key and null constraint must be specified in [primary key (or blank)|not null (or blank)]!)
Type insert into +tablename values(value1,value2,``valueN) to insert values in specified table
Type 'drop table + tablename;' to drop table
Type 'select * from +tablename+ where + columnname =/</> + comapre value' to show rows in specified table
Type 'exit;' to leave DavisBase
*****
create schema Zoo;
New Schema 'Zoo' Has Been Created!
```

## Create table:

```
Welcom To Davis Base.
Type "help;" to display all supported commands.
*****
help;
Type 'show schemas;' to display all schama in database.
Type 'show tables;' to display all tables of a schema in database
Type 'show columns;' to display all the columns information in database
Type 'use + schemaname;' to use schema which you choose
Type 'create schema + schemaname' to create a new schema in given name
Type 'create table + tablename +(columnname datatype [primary key|not null],``columnnameN datatype(datalength) [|])' to create a table
(Notice: key and null constraint must be specified in [primary key (or blank)|not null (or blank)]!)
Type insert into +tablename values(value1,value2,``valueN) to insert values in specified table
Type 'drop table + tablename;' to drop table
Type 'select * from +tablename+ where + columnname =/</> + comapre value' to show rows in specified table
Type 'exit;' to leave DavisBase
*****
show schemas;
SCHEMAS
#####
create schema Zoo;
New Schema 'Zoo' Has Been Created!
show schemas;
SCHEMAS
#####
Zoo
use Zoo;
You are now using schema |Zoo|
create table zoo_animals (animal_id int [primary key|not null], animal_name varchar(20) [ |not null], animal_hometown varchar(25) [ | ]);
Table |zoo_animals| has been created.
```

## Insert into values:

```
insert into zoo_animals(01, tiger, Asian);
value: 01      column: animal_id      type name: int
value: tiger   column: animal_name    type name: varchar
value: Asian   column: animal_hometown type name: varchar
Insertion Success!
insert into zoo_animals(02, elephant, Africa);
value: 02      column: animal_id      type name: int
value: elephant column: animal_name    type name: varchar
value: Africa  column: animal_hometown type name: varchar
Insertion Success!
insert into zoo_animals(03, monkey, Africa);
value: 03      column: animal_id      type name: int
value: monkey  column: animal_name    type name: varchar
value: Africa  column: animal_hometown type name: varchar
Insertion Success!
insert into zoo_animals(04, whale, Ocean);
value: 04      column: animal_id      type name: int
value: whale   column: animal_name    type name: varchar
value: Ocean   column: animal_hometown type name: varchar
Insertion Success!
insert into zoo_animals(05, Panda, China);
value: 05      column: animal_id      type name: int
value: Panda   column: animal_name    type name: varchar
value: China   column: animal_hometown type name: varchar
Insertion Success!
insert into zoo_animals(06, kangaroo, Australia);
value: 06      column: animal_id      type name: int
value: kangaroo column: animal_name    type name: varchar
value: Australia column: animal_hometown type name: varchar
Insertion Success!
insert into zoo_animals(01, eagle, USA);
Key Duplicated
Your Input Is Not Valid. Insert Denied. Please Try Again.
```

## Select records from table:

```
select * from zoo_animals where animal_id <> 0;
animal_id      animal_name      animal_hometown
1 | tiger | Asian |
animal_id      animal_name      animal_hometown
2 | elephant | Africa |
animal_id      animal_name      animal_hometown
3 | monkey | Africa |
animal_id      animal_name      animal_hometown
4 | whale | Ocean |
animal_id      animal_name      animal_hometown
5 | Panda | China |
animal_id      animal_name      animal_hometown
6 | kangaroo | Australia |
animal_id      animal_name      animal_hometown
7 | eagle | USA |
```

```
select * from zoo_animals where animal_id = 3;
animal_id      animal_name      animal_hometown
3 | monkey | Africa |
select * from zoo_animals where animal_id > 3;
animal_id      animal_name      animal_hometown
4 | whale | Ocean |
animal_id      animal_name      animal_hometown
5 | Panda | China |
animal_id      animal_name      animal_hometown
6 | kangaroo | Australia |
animal_id      animal_name      animal_hometown
7 | eagle | USA |
```

## Show all columns:

```
show schemas;
SCHEMAS
#####
Zoo
show tables;
TABLE_NAMES
*****
zoo_animals
show columns;
TABLE_SCHEMA    TABLE_NAME      COLUMN_NAME      ORDINAL_POSITION  COLUMN_TYPE      IS_NULLABLE      COLUMN_KEY
*****
Zoo      zoo_animals      animal_id      1      int      NO      PRI      Bytes Read: 41
Zoo      zoo_animals      animal_name      2      varchar(20)      NO      Bytes Read: 89
Zoo      zoo_animals      animal_hometown 3      varchar(25)      YES      Bytes Read: 142
Total size in bytes :142
```

## Drop a table:

```
create table zoo_employee (employee_id int [primary key[not null]], employee_name varchar(20) [not null], employee_salary int [ ] );
Table |zoo_employee| has been created.
insert into zoo_employee values (01, John, 20000);
value: 01      column: employee_id      type name: int
value: John      column: employee_name      type name: varchar
value: 20000      column: employee_salary type name: int
Insertion Success!
insert into zoo_employee values (02, Mary, 15000);
value: 02      column: employee_id      type name: int
value: Mary      column: employee_name      type name: varchar
value: 15000      column: employee_salary type name: int
Insertion Success!
insert into zoo_employee values (03, Frank, 21000);
value: 03      column: employee_id      type name: int
value: Frank      column: employee_name      type name: varchar
value: 21000      column: employee_salary type name: int
Insertion Success!
insert into zoo_employee values (04, Boss, 25000);
value: 04      column: employee_id      type name: int
value: Boss      column: employee_name      type name: varchar
value: 25000      column: employee_salary type name: int
Insertion Success!
```

```

show tables;
TABLE NAMES
*****
zoo_animals
zoo_employee
show columns;
TABLE_SCHEMA      TABLE_NAME      COLUMN_NAME      ORDINAL POSITION      COLUMN_TYPE      IS_NULLABLE      COLUMN_KEY
*****
Zoo      zoo_animals      animal_id      1      int      NO      PRI      Bytes Read: 41
Zoo      zoo_animals      animal_name      2      varchar(20)      NO      Bytes Read: 89
Zoo      zoo_animals      animal_hometown      3      varchar(25)      YES      Bytes Read: 142
Zoo      zoo_employee      employee_id      1      int      NO      PRI      Bytes Read: 186
Zoo      zoo_employee      employee_name      2      varchar(20)      NO      Bytes Read: 237
Zoo      zoo_employee      employee_salary      3      int      YES      Bytes Read: 283
Total size in bytes :283

```

```

drop table zoo_employee;
|zoo_employee has been dropped!

```

**Exit:**

```

|exit;
|Now Exiting...

```