**AshishBase Database**

**Implementation Details**

**Run :**

1. Go to project Folder
2. Compile command:

javac AshishBaseMain.java

java AshishBaseMain

1. Here are sample commands :

**NOTE: SampleRun.txt file also attached**

* **Database catalog**

The meta-data resides in two tables namely ***ashishbase\_tables*** and ***ashishbase\_columns*** .

*These two tables are created when database is initialized for first time.*

* **User data**

User defined tables are stored in the following location: /data/user\_data/

* **Supported Commands**
  + **SHOW TABLES;**
  + **CREATE TABLE *table\_name* (**

**row\_id INT PRIMARY KEY,**

***column\_name2 data\_type2* [*NOT NULL*],**

***column\_name3 data\_type3* [*NOT NULL*],**

**...**

**);**

* + **DROP TABLE *table\_name*;**
  + **INSERT INTO *table\_name* (*column\_list*) VALUES (*value1*,*value2*,*value3*, ...);**
  + **SELECT *\** FROM *table\_name* WHERE *column\_name operator* value;**
  + **UPDATE *table\_name* SET *column\_name = value*** [**WHERE condition];**

***Sample commands:***

***Show existing tables***

*SHOW TABLES;*

***Select all rows from ASHISHBASE\_TABLES table***

*SELECT \* FROM ASHISHBASE\_TABLES ;*

***Select all rows from ASHISHBASE\_COLUMNS table***

*SELECT \* FROM ASHISHBASE\_COLUMNS ;*

***Create PERSON\_BASIC\_DETAILS table***

*CREATE TABLE PERSON\_BASIC\_DETAILS (*

*ROW\_ID INT PRIMARY KEY,*

*NAME TEXT NOT NULL,*

*AGE SMALLINT,*

*DATE\_OF\_BIRTH DATE,*

*WEIGHT REAL*

*);*

*SELECT \* FROM ASHISHBASE\_TABLES ;*

*SELECT \* FROM ASHISHBASE\_COLUMNS ;*

*SELECT \* FROM PERSON\_BASIC\_DETAILS;*

***Insert record into PERSON\_BASIC\_DETAILS table***

*INSERT INTO T ABLE ( ROW\_ID, NAME, AGE, DATE\_OF\_BIRTH, WEIGHT ) PERSON\_BASIC\_DETAILS VALUES( 1, JENNY CARTER, 28, 1990-03-31, 55);*

***Select all from PERSON\_BASIC\_DETAILS table***

*SELECT \* FROM PERSON\_BASIC\_DETAILS;*

***Create PERSON\_INFO table***

*CREATE TABLE PERSON\_INFO (*

*ROW\_ID INT PRIMARY KEY,*

*DEPENDENTS TINYINT,*

*ADDRESS TEXT,*

*PINCODE BIGINT,*

*SALARY DOUBLE,*

*PURCHASE\_TIMESTAMP DATETIME*

*);*

*SELECT \* FROM ASHISHBASE\_TABLES ;*

*SELECT \* FROM ASHISHBASE\_COLUMNS ;*

*SELECT \* FROM PERSON\_INFO;*

***Insert record into PERSON\_INFO table***

*INSERT INTO TABLE (ROW\_ID, DEPENDENTS, ADDRESS, PINCODE, SALARY, PURCHASE\_TIMESTAMP) PERSON\_INFO VALUES(1, 2, null, 75252, 120000, 2018-04-20\_13:30:45);*

***Select all from PERSON\_INFO table***

*SELECT \* FROM PERSON\_INFO;*

***UPDATE table***

*UPDATE PERSON\_INFO SET DEPENDENTS = 4 WHERE ROW\_ID = 1;*

***DROP table***

*DROP TABLE PERSON\_INFO;*