**CREATE:**

CREATE TABLE Course (

row\_id INT PRIMARY KEY,

colName TEXT NOT NULL,

colTinyInt TINYINT NOT NULL,

colSmallInt SMALLINT,

colInt INT,

colBigInt BIGINT,

colReal REAL,

colDouble DOUBLE,

colDateTime DATETIME,

colText TEXT

);

**INSERT:**

INSERT INTO Table (row\_id , colName , colTinyInt , colSmallInt , colInt , colBigInt , colReal , colDouble , colDateTime , colText) Course VALUES (1, 'Database', 2, 1, 1, 1, 1.0, 1.0, 2018-05-03\_00:00:00, 'the first course');

INSERT INTO Table (row\_id , colName , colTinyInt , colSmallInt , colInt , colBigInt , colReal , colDouble , colDateTime , colText) Course VALUES (2, 'Database', 2, 1, 1, 1, 1.0, 1.0, 2018-05-03\_00:00:00, 'the second course');

INSERT INTO Table (row\_id , colName , colTinyInt , colSmallInt , colInt , colBigInt , colReal , colDouble , colDateTime , colText) Course VALUES (3, 'Database', 2, 1, 1, 1, 1.0, 1.0, 2018-05-03\_00:00:00,'null');

**Note: In Insert all the columns value should be provided and null is handled for last column only.**

**No quotes in datetime.**

**UPDATE:**

UPDATE Course SET colName = 'DBDesign' where row\_id = 2;

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**SELECT :**

select \* from course;

**Note: only \* is implemented for select as Professor has said so in class.**

**Sample Run:**

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Welcome to AshishBaseLite

AshishBaseLite Version v1.0

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Type "help;" to display supported commands.

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ashishsql> show tables;

table\_name DBname

ashishbase\_tables catalog

ashishbase\_columns catalog

ashishsql> SELECT \* FROM ASHISHBASE\_TABLES ;

rowid table\_name DBname

1 ashishbase\_tables catalog

2 ashishbase\_columns catalog

ashishsql> SELECT \* FROM ASHISHBASE\_COLUMNS ;

rowid table\_name column\_name data\_type ordinal\_position is\_nullable COLUMN\_KEY DBname

1 ashishbase\_tables rowid INT 1 NO PRI

2 ashishbase\_tables table\_name TEXT 2 NO NULL

3 ashishbase\_tables DBname TEXT 3 NO NULL

4 ashishbase\_columns rowid INT 1 NO PRI

5 ashishbase\_columns table\_name TEXT 2 NO NULL

6 ashishbase\_columns column\_name TEXT 3 NO NULL

7 ashishbase\_columns data\_type TEXT 4 NO NULL

8 ashishbase\_columns ordinal\_position TINYINT 5 NO NULL

9 ashishbase\_columns is\_nullable TEXT 6 NO NULL

10 ashishbase\_columns COLUMN\_KEY TEXT 7 NO NULL

11 ashishbase\_columns DBname TEXT 8 NO NULL

ashishsql> **CREATE TABLE PERSON\_BASIC\_DETAILS (**

**ROW\_ID INT PRIMARY KEY,**

**NAME TEXT NOT NULL,**

**AGE SMALLINT,**

**DATE\_OF\_BIRTH DATE,**

**WEIGHT REAL**

**);**

ashishsql> **SELECT \* FROM ASHISHBASE\_TABLES ;**

rowid table\_name DBname

1 ashishbase\_tables catalog

2 ashishbase\_columns catalog

3 person\_basic\_details user\_data

ashishsql> **SELECT \* FROM ASHISHBASE\_COLUMNS ;**

rowid table\_name column\_name data\_type ordinal\_position is\_nullable COLUMN\_KEY DBname

1 ashishbase\_tables rowid INT 1 NO PRI

2 ashishbase\_tables table\_name TEXT 2 NO NULL

3 ashishbase\_tables DBname TEXT 3 NO NULL

4 ashishbase\_columns rowid INT 1 NO PRI

5 ashishbase\_columns table\_name TEXT 2 NO NULL

6 ashishbase\_columns column\_name TEXT 3 NO NULL

7 ashishbase\_columns data\_type TEXT 4 NO NULL

8 ashishbase\_columns ordinal\_position TINYINT 5 NO NULL

9 ashishbase\_columns is\_nullable TEXT 6 NO NULL

10 ashishbase\_columns COLUMN\_KEY TEXT 7 NO NULL

11 ashishbase\_columns DBname TEXT 8 NO NULL

12 person\_basic\_details row\_id int 1 YES PRI user\_data

13 person\_basic\_details name text 2 NO NULL user\_data

14 person\_basic\_details age smallint 3 YES NULL user\_data

15 person\_basic\_details date\_of\_birth date 4 YES NULL user\_data

16 person\_basic\_details weight real 5 YES NULL user\_data

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

row\_id name age date\_of\_birth weight

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

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

row\_id name age date\_of\_birth weight

1 jenny carter 28 31/03/1990 55.0

ashishsql> **CREATE TABLE PERSON\_INFO (**

**ROW\_ID INT PRIMARY KEY,**

**DEPENDENTS TINYINT,**

**ADDRESS TEXT,**

**PINCODE BIGINT,**

**SALARY DOUBLE,**

**PURCHASE\_TIMESTAMP DATETIME**

**);**

ashishsql>

**SELECT \* FROM ASHISHBASE\_TABLES ;**

rowid table\_name DBname

1 ashishbase\_tables catalog

2 ashishbase\_columns catalog

3 person\_basic\_details user\_data

4 person\_info user\_data

ashishsql> **SELECT \* FROM ASHISHBASE\_COLUMNS ;**

rowid table\_name column\_name data\_type ordinal\_position is\_nullable COLUMN\_KEY DBname

1 ashishbase\_tables rowid INT 1 NO PRI

2 ashishbase\_tables table\_name TEXT 2 NO NULL

3 ashishbase\_tables DBname TEXT 3 NO NULL

4 ashishbase\_columns rowid INT 1 NO PRI

5 ashishbase\_columns table\_name TEXT 2 NO NULL

6 ashishbase\_columns column\_name TEXT 3 NO NULL

7 ashishbase\_columns data\_type TEXT 4 NO NULL

8 ashishbase\_columns ordinal\_position TINYINT 5 NO NULL

9 ashishbase\_columns is\_nullable TEXT 6 NO NULL

10 ashishbase\_columns COLUMN\_KEY TEXT 7 NO NULL

11 ashishbase\_columns DBname TEXT 8 NO NULL

12 person\_basic\_details row\_id int 1 YES PRI user\_data

13 person\_basic\_details name text 2 NO NULL user\_data

14 person\_basic\_details age smallint 3 YES NULL user\_data

15 person\_basic\_details date\_of\_birth date 4 YES NULL user\_data

16 person\_basic\_details weight real 5 YES NULL user\_data

17 person\_info row\_id int 1 YES PRI user\_data

18 person\_info dependents tinyint 2 YES NULL user\_data

19 person\_info address text 3 YES NULL user\_data

20 person\_info pincode bigint 4 YES NULL user\_data

21 person\_info salary double 5 YES NULL user\_data

22 person\_info purchase\_timestamp datetime 6 YES NULL user\_data

ashishsql> **SELECT \* FROM PERSON\_INFO;**

row\_id dependents address pincode salary purchase\_timestamp

ashishsql**> 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);**

ashishsql> **SELECT \* FROM PERSON\_INFO;**

row\_id dependents address pincode salary purchase\_timestamp

1 2 null 75252 120000.0 20/04/2018 13:30:45

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

ashishsql> **INSERT INTO TABLE ( ROW\_ID, NAME, AGE, DATE\_OF\_BIRTH, WEIGHT ) PERSON\_BASIC\_DETAILS VALUES( 2, JIMMY CARTER, 28, 1990-03-31, 55);**

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

row\_id name age date\_of\_birth weight

1 jenny carter 28 31/03/1990 55.0

2 jimmy carter 28 31/03/1990 55.0

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

ashishsql> **SELECT \* FROM PERSON\_INFO;**

row\_id dependents address pincode salary purchase\_timestamp

1 4 null 75252 120000.0 20/04/2018 13:30:45

2 2 null 75252 120000.0 20/04/2018 13:30:45

ashishsql>