GAYARES JOSE III

II-ACDS

1. What is Sqlite?

   - SQLite is a software library that provides a relational database management system. The lite in SQLite means lightweight in terms of setup, database administration, and required resources. SQLite has the following noticeable features: self-contained, serverless, zero-configuration, transactional.

2. List out the areas where SQLite works well?

   - Because an SQLite database requires no administration, it works well in devices that must operate without expert human support. SQLite is a good fit for use in cellphones, set-top boxes, televisions, game consoles, cameras, watches, kitchen appliances, thermostats, automobiles, machine tools, airplanes, remote sensors, drones, medical devices, and robots: the "internet of things"

3. what are the SQLite storage classes

| **Storage Class** | **Meaning** |
|---|---|
| NULL | NULL values mean missing information or unknown. |
| INTEGER | Integer values are whole numbers (either positive or negative). An integer can have variable sizes such as 1, 2,3, 4, or 8 bytes. |
| REAL | Real values are real numbers with decimal values that use 8-byte floats. |
| TEXT | TEXT is used to store character data. The maximum length of TEXT is unlimited. SQLite supports various character encodings. |
| BLOB | BLOB stands for a binary large object that can store any kind of data. The maximum size of BLOB is, theoretically, unlimited. |

4. What are the most important features of SQLite?

Features Of SQLite

- Transactions are atomic, consistent, isolated, and durable (ACID) even after system crashes and power failures.
- Zero-configuration - no setup or administration needed.
- Full-featured SQL implementation with advanced capabilities like partial indexes, indexes on expressions, JSON
- A complete database is stored in a single cross-platform disk file .

5. How would you create a table in SQLite database?

```
String  createAuthor = "CREAT TABLE   authors (
                id  INTEGER PRIMARY KEY AUTOINCREMENT,
                fname  TEXT,
                 lname  TEXT);
myDatabase.execSQL(createAuthor);
```

6. How can you delete the existing records from a table in SQLite?

```
int  delete(String table, String whereClause, String[] whereArgs)
```

```
public void deleteBook(Integer  bookId)  {
myDatabase.delete("tbl_books" , "id=?" , new String[ ] {bookId.toString( )  } ) ;
}
```

7. How can you Update the existing records from a table in SQLite?

```
int  update(String table, ContentValues values, String whereClause, String[ ] whereArgs)
public void updateBookTitle(Integer bookId, String newTitle) {
  ContentValues  values = new ContentValues();
```

```
   values.put("title" , newTitle);

  myDatabase.update("tbl_books" ,  values ,

     "id=?" , new String[ ] {bookId.toString() } );

}
```

8. How can you search records from a table in SQLite?

```
SELECT * FROM tablename

WHERE tablename = sinesearch mo;
```

9. How can you insert records to a table in SQLite?

```
long  insert(String table, ContentValues values)

import  android.content.ContentValues;

ContentValues  values = new  ContentValues( );

values.put("firstname" , "J.K.");

values.put("lastname" , "Rowling");

long newAuthorID =  myDatabase.insert("tbl_authors" , "" , values);
```

10. How to make 2 or more tables in SQLLite?

```
            myDatabase.execSQL(createAuthor);

            myDatabase.execSQL(table2);

            myDatabase.execSQL(table3);
```