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Assignment - 03 — mycompanion 43304

* Title → Android database connectivity.

* Problem Statement → Create an SQLite application for the Android application and perform CRUD operations.

* Theory →

A. What is SQLite ?

SQLite is an SQL database. The data is stored in the form of tables. The tables are the structure for storing data consisting of rows and columns.

B. Android SQLite :

① Lightweight database which comes with android - It combines a clean SQL database with a very small memory footprint.

② SQLite is a typical relational database.

C. Android SQLite SQLite Helper :

① Android has features available to handle changing database schemas which mostly depends on using the SQLite Open Helper class.

② SQLite Open Helper is designed to get rid of 2 common problems → i) No database is present, when the application is run 1st time

ii) Designed to create and upgrade a database as per specifications.

```
public DataBaseHelper (Context context) {
    super (context, DB_NAME, null, DB_VERSION);
}
```

D. Opening and closing Android SQLite database connection :

① Before performing any database operations, open the database connectivity by calling getWritableDatabase () method.

② The dbHelper is an instance of the subclass of SQLite Open Helper.

③ To close the database connection, following method is invoked.

```
public void close() {
    db.Helper.close();
}
```

5. Android SQLite cursor :

① A cursor represents the entire result set of the query. Once the query is fetched a call to cursor.moveToFirst() is made.

② Calling moveToFirst() does 2 things ⇒

i) Test whether query returned an empty set.

ii) Moves cursor to first result.

* Conclusion → Thus in this assignment, we've learnt about SQLite and how to perform CRUD operations.