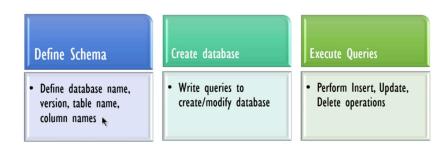
# The steps to create a database



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In Android, it is a common convention that primary keys start with underscore. i.e. "\_id".

# Step 1: Define the Schema

```
private static final private s
```



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 $The \ SQLiteOpenHelper$ 

## The SQLiteOpenHelper

- Create a subclass of SQLiteOpenHelper implementing onCreate(SQLiteDatabase),onUpgrade(SQLiteDatabase, int, int)
- This class takes care of opening the database if it exists, creating it if it does not, and upgrading it as necessary.



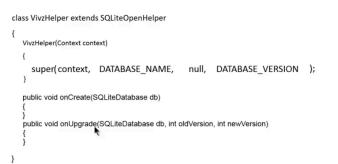


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### The SQLiteOpenHelper

- onCreate(): Called when the database is created for the first time. Creation of tables and initial data inside tables should be put here.
- onUpgrade(): Called when the database needs to be upgraded. Use this method to
  drop tables, add tables, or do anything else it needs to upgrade to the new schema
  version
- If you add new columns you can use ALTER TABLE to insert them into a live table.





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**SQLite Database class** 

### The SQLiteDatabase class

- SQLiteDatabase has methods to create, delete, execute SQL commands, and perform other common database management tasks.
- Database names must be unique within an application, not across all applications.
- public void execSQL(String sql)
- Execute a single SQL statement that is NOT a SELECT or any other SQL statement that returns data.
- Multiple statements separated by semicolons are not supported.
- If the SQL string is invalid, throws an SQLException



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#### Step1:Implement the onCreate

### Step1: Implement the onCreate





Step1: Implement the onUpgrade

Items on the update are flexible depending on what users want to do. Options includes drop table, save table content, add table.

### Step1: Implement the onUpgrade

```
class VivzHelper extends SQLiteOpenHelper
{
    private static final String DATABASE_NAME = "vivzdatabase.db";
    private static final String TABLE_NAME = "VIVZTABLE";
    private static final String UID= "_id";
    private static final String NAME= "Name";
    private static final int DATABASE_VERSION=1;
    VivzHelper(Context context)
    {
        super ( context, DATABASE_NAME, null, DATABASE_VERSION );
    }
    public void onCreate(SQLiteDatabase db)
    {
        ...
    }
    public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion)
    {
        db.execSQL("DROP TABLE IF EXISTS VIVZTABLE");
        onCreate(db);
    }
}
```





OnCreate is called again to recreate the table with the new statement that we added