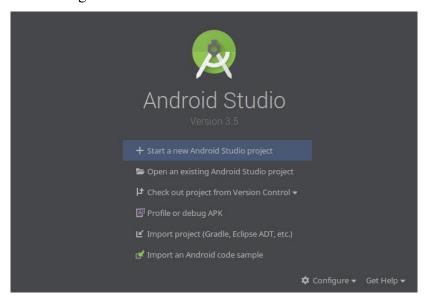
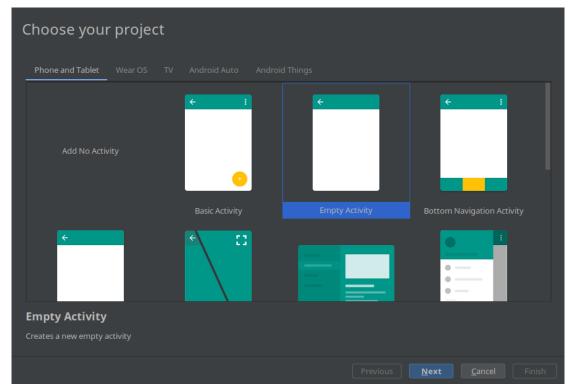
Praktikum 7

Parameter Passing

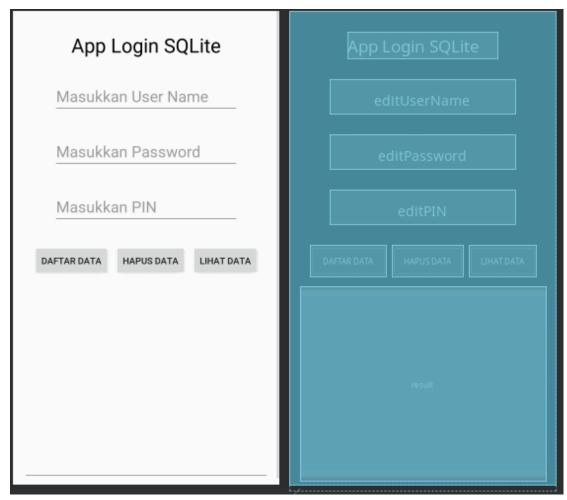
1. Buatlah proyek baru dengan Android Studio



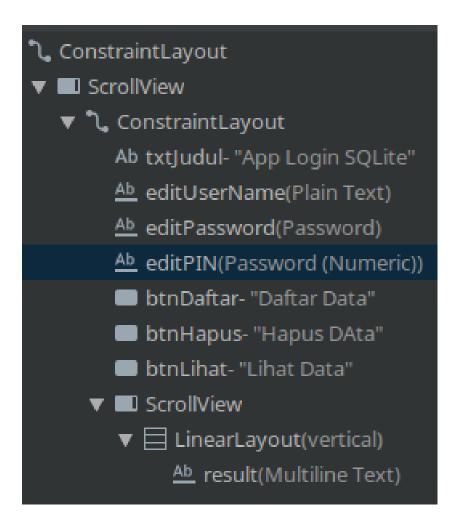
2. Pilih Empty Activity untuk memulai aplikasi baru



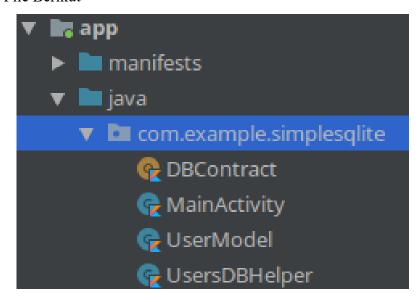
- 3. Isikan nama aplikasi dan lokasinya
- 4. Buatlah tampilan aplikasi seperti berikut, setelah fungsi background selesai:



5. Nama variabel yang dianjurkan agar mudah diingat



6. Buatlah File-File Berikut



7. Lalu lanjutkan dengan koding fungsional

```
UserModel.kt
package com.example.simplesqlite
class UserModel (
  val username: String,
  val password: String,
  val pin: String
                                 DBContract.kt
package com.example.simplesqlite
import android.provider.BaseColumns
object DBContract {
  // Definisi Konten Tabel
  class UserEntry : BaseColumns {
    companion object {
      val TABLE NAME = "users"
      val COLUMN USER NAME = "username"
      val COLUMN PASSWORD = "password"
      val COLUMN PIN = "pin"
                               UsersDBHelper.kt
package com.example.simplesqlite
import android.content.ContentValues
import android.content.Context
import android.database.Cursor
import android.database.sqlite.SQLiteConstraintException
import android.database.sqlite.SQLiteDatabase
import android.database.sqlite.SQLiteException
import android.database.sqlite.SQLiteOpenHelper
import java.util.ArrayList
class UsersDBHelper(context: Context): SQLiteOpenHelper(context, DATA-
BASE NAME, null, DATABASE VERSION) {
  override fun onCreate(db: SQLiteDatabase) {
    db.execSQL(SQL CREATE ENTRIES)
```

```
override fun on Upgrade (db: SQLiteDatabase, oldVersion: Int, new Version: Int) {
  // This database is only a cache for online data, so its upgrade policy is
  // to simply to discard the data and start over
  db.execSQL(SQL DELETE ENTRIES)
  onCreate(db)
override fun onDowngrade(db: SQLiteDatabase, oldVersion: Int, newVersion: Int) {
  onUpgrade(db, oldVersion, newVersion)
// Metode Tambah User
@Throws(SQLiteConstraintException::class)
fun insertUser(user: UserModel): Boolean {
  // Gets the data repository in write mode
  val db = writableDatabase
  // Mapping Data ke Tabel
  val values = ContentValues()
  values.put(DBContract.UserEntry.COLUMN_USER_NAME, user.username)
  values.put(DBContract.UserEntry.COLUMN PASSWORD, user.password)
  values.put(DBContract.UserEntry.COLUMN PIN, user.pin)
  // Insert the new row, returning the primary key value of the new row
  val newRowId = db.insert(DBContract.UserEntry.TABLE NAME, null, values)
  return true
// Metode Hapus User
@Throws(SQLiteConstraintException::class)
fun deleteUser(userid: String): Boolean {
  val db = writableDatabase
  val selection = DBContract.UserEntry.COLUMN USER NAME + "LIKE?"
  val selectionArgs = arrayOf(userid)
  db.delete(DBContract.UserEntry.TABLE NAME, selection, selectionArgs)
  return true
// Membaca Semua Data
fun readAllUsers(): ArrayList<UserModel> {
  val users = ArrayList<UserModel>()
  val db = writableDatabase
  var cursor: Cursor? = null
```

```
cursor = db.rawQuery("select * from " + DBContract.UserEntry.TABLE NAME,
null)
    } catch (e: SQLiteException) {
      db.execSQL(SQL CREATE ENTRIES)
      return ArrayList()
    var userid: String
    var name: String
    var age: String
    if (cursor!!.moveToFirst()) {
      while (cursor.isAfterLast == false) {
        userid = cursor.getString(cursor.getColumnIndex(DBContract.UserEntry.COL-
UMN USER NAME))
        name = cursor.getString(cursor.getColumnIndex(DBContract.UserEntry.COL-
UMN PASSWORD))
        age = cursor.getString(cursor.getColumnIndex(DBContract.UserEntry.COL-
UMN PIN))
        users.add(UserModel(userid, name, age))
         cursor.moveToNext()
    return users
  // Entry SQL
  companion object {
    val DATABASE VERSION = 1
    val DATABASE NAME = "FeedReader.db"
    private val SQL CREATE ENTRIES =
      "CREATE TABLE " + DBContract.UserEntry.TABLE NAME + " (" +
          DBContract.UserEntry.COLUMN USER NAME + " TEXT PRIMARY
KEY,"+
          DBContract.UserEntry.COLUMN PASSWORD + "TEXT," +
          DBContract.UserEntry.COLUMN PIN + " TEXT)"
    private val SQL DELETE ENTRIES = "DROP TABLE IF EXISTS" + DBCon-
tract.UserEntry.TABLE NAME
  }
```

```
MainActivity.kt
package com.example.simplesqlite
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.widget.EditText
import android.widget.TextView
// import kotlinx.android.synthetic.main.activity main.*
class MainActivity : AppCompatActivity() {
  lateinit var usersDBHelper: UsersDBHelper
  override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContentView(R.layout.activity main)
    val btnDaftar = findViewById<Button>(R.id.btnDaftar)
    val btnHapus = findViewById<Button>(R.id.btnHapus)
    val btnLihat = findViewById<Button>(R.id.btnLihat)
    // Inisialisasi DB
    usersDBHelper = UsersDBHelper(this)
    var resultText = findViewById<EditText>(R.id.result)
    // Aksi Daftar User
    btnDaftar.setOnClickListener {
       var editUserName = findViewById<EditText>(R.id.editUserName)
       var editPassword = findViewById<EditText>(R.id.editPassword)
       var editPin = findViewById<EditText>(R.id.editPIN)
       var username = editUserName.text.toString()
       var password = editPassword.text.toString()
       var pin = editPin.text.toString()
       var result = usersDBHelper.insertUser(UserModel(username = username,pass-
word = password, pin = pin)
      // Bersihkan Entry
       resultText.setText("Added user : "+ username)
       editUserName.setText("")
       editPassword.setText("")
       editPin.setText("")
```

```
btnHapus.setOnClickListener {
    var editUserName = findViewById<EditText>(R.id.editUserName)

    var username = editUserName.text.toString()

    val result = usersDBHelper.deleteUser(username)
    resultText.setText("Deleted user : "+result)
}

btnLihat.setOnClickListener {
    var users = usersDBHelper.readAllUsers()
    var out : String = ""
    users.forEach {
        out += it.username.toString() + "\n" + it.password.toString() + "\n" +
    it.pin.toString() + "\n"
    }
    resultText.setText("Result:\n" + out)
}
```

9. Kompile Kode ke Emulator