BÀI TẬP THÊM BUỔI 10

1. Tạo Class KhachHang

```
© KhachHang.java ×
                                                                                                               ≾31 ^ ∨
     package com.example.ql_sudungnuoc.dulieu;
    public class KhachHang {
        3 usages
        private int mskh;
        3 usages
        private String hoten;
 5
        3 usages
        private String dienthoai;
        3 usages
        private String doituong;
        3 usages
        private String thanhtoan;
        3 usages
        private int khuvuc;
         public KhachHang(){
11 ~
         public KhachHang(int mskh, String hoten, String dienthoai, String doituong, String thanhtoan, int khuvuc) {
            this.mskh = mskh;
             this.hoten = hoten;
            this.dienthoai = dienthoai;
            this.doituong = doituong;
             this.thanhtoan = thanhtoan;
             this.khuvuc = khuvuc;
20
        public int getMskh() { return mskh; }
         public void setMskh(int mskh) { this.mskh = mskh; }
29
         public String getHoten() { return hoten; }
30 >
33
         public void setHoten(String hoten) { this.hoten = hoten; }
         public String getDienthoai() { return dienthoai; }
38 >
42 >
         public void setDienthoai(String dienthoai) { this.dienthoai = dienthoai; }
```

Bài tập Phát triển ứng dụng trên thiết bị di động_TN216

```
2 usages
public String getDoituong() { return doituong; }

1 usage
public void setDoituong(String doituong) { this.doituong = doituong; }

2 usages
public String getThanhtoan() { return thanhtoan; }

1 usage
public void setThanhtoan(String thanhtoan) { this.thanhtoan = thanhtoan; }

2 usages
public int getKhuvuc() { return khuvuc; }

1 usage
public void setKhuvuc(int khuvuc) { this.khuvuc = khuvuc; }

1 usage
public void setKhuvuc(int khuvuc) { this.khuvuc = khuvuc; }

1 usage
public void setKhuvuc(int khuvuc) { this.khuvuc = khuvuc; }

1 usage
public void setKhuvuc(int khuvuc) { this.khuvuc = khuvuc; }

1 usage
public void setKhuvuc(int khuvuc) { this.khuvuc = khuvuc; }

1 usage
```

2. Tạo lớp DbHelper kế thừa SQLiteOpenHelper trong thư mục dulieu

```
KhachHangAdapter.java
                        O DbHelper.java ×
         package com.example.ql_sudungnuoc.dulieu;
 3
        > import ...
         26 usages
 9
         public class DbHelper extends SQLiteOpenHelper {
             public static final String DB_NAME= "SuDungNuoc.db";
             1 usage
             private static final int DB_VERSION=1;
             public static final String TABLE_KHACHHANG = "khachhang";
             5 usages
             public static final String KH_MSKH = "mskh";
             4 usages
             public static final String KH_HOTEN = "hoten";
14
             4 usages
             public static final String KH_DIENTHOAI = "dienthoai";
             public static final String KH_DOITUONG = "doituong";
             public static final String KH_THANHTOAN= "thanhtoan";
             public static final String KH_KHUVUC= "khuvuc";
             1 usage
19
             private static final String CREATE_TABLE_KHACHHANG
                    = "Create Table " + TABLE_KHACHHANG + "("
                     + KH_MSKH + " Integer Primary Key Autoincrement, "
                     + KH_HOTEN + " Text, "
```

```
+ KH_DIENTHOAI + " Text, "
23
                     + KH_DOITUONG + " Text, "
                     + KH_THANHTOAN + " Text, "
                     + KH_KHUVUC + " Integer);";
26
             1 usage
             public DbHelper(Context context) { super(context, DB_NAME, factory: null, DB_VERSION); }
28
             @Override
32 @ Dublic void onCreate(SQLiteDatabase db) { db.execSQL(CREATE_TABLE_KHACHHANG); }
             @Override
36 C1 @
             public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {
                 db.execSQL("Drop Table if Exists " + TABLE_KHACHHANG);
                 onCreate(db);
38
             }
         }
40
41
```

3. Tạo lớp KhachHangAdapter trong thư mục xuly hỗ trợ thực hiện thao tác trên dữ liệu cho lớp KhachHang.

```
© KhachHangAdapter.java ×
        package com.example.ql_sudungnuoc.xuly;
                                                                                                                 △7 ≾14 ^
  2
  3
      > import ...
        3 usages
 14
        public class KhachHangAdapter {
            4 usages
 16
            private DbHelper dbHelper;
            7 usages
            private SQLiteDatabase db;
            1 usage
            private String[] allColumns= {
 18
 19
                     DbHelper.KH_MSKH,
 20
                     DbHelper.KH_HOTEN,
                     DbHelper.KH_DIENTHOAI,
                     DbHelper.KH_DOITUONG,
                     DbHelper.KH_THANHTOAN,
 24
                     DbHelper.KH_KHUVUC
            };
            1 usage
            public KhachHangAdapter(Context context){
 26
                dbHelper = new DbHelper(context);
                 db = dbHelper.getWritableDatabase();
 28
            }
 29
```

```
△7 ≾14 ^
           2 usages
31 @
           public long insertKhachHang(KhachHang khachHang){
              db = dbHelper.getWritableDatabase();
              ContentValues values = new ContentValues();
              values.put(DbHelper.KH_MSKH, khachHang.getMskh());
               values.put(DbHelper.KH_HOTEN,khachHang.getHoten());
               values.put(DbHelper.KH_DIENTHOAI,khachHang.getDienthoai());
               values.put(DbHelper.KH_DOITUONG, khachHang.getDoituong());
               values.put(DbHelper.KH_THANHTOAN, khachHang.getThanhtoan());
               values.put(DbHelper.KH_KHUVUC, khachHang.getKhuvuc());
               return db.insert(DbHelper.TABLE_KHACHHANG, nullColumnHack: null, values);
           }
           public int updateKhachHang(int mskh, String strHoTen,
                                      String strDienThoai, String strDoiTuong,
                                      String strThanhToan, int khuvuc){
               ContentValues values = new ContentValues();
               values.put(DbHelper.KH_HOTEN, strHoTen);
48
               values.put(DbHelper.KH_DIENTHOAI, strDienThoai);
49
50
               values.put(DbHelper.KH_DOITUONG, strDoiTuong);
               values.put(DbHelper.KH_THANHTOAN, strThanhToan);
               values.put(DbHelper.KH_KHUVUC, khuvuc);
               return db.update(DbHelper.TABLE_KHACHHANG, values,
                       whereClause: DbHelper.KH_MSKH + " = " + mskh, whereArgs: null);
           }
```

```
1 usage
56
            public int deleteKhachHang(int mskh) {
57
                 return db.delete(DbHelper.TABLE_KHACHHANG,
                          whereClause: DbHelper.KH_MSKH + " = " + mskh, whereArgs: null);
 58
59
            }
            1 usage
61 @
            private KhachHang cursorKhachHang(Cursor cursor){
62
                 KhachHang khachHang = new KhachHang();
                 khachHang.setMskh(cursor.getInt( columnIndex: 0));
                 khachHang.setHoten(cursor.getString( columnIndex: 1));
                 khachHang.setDienthoai(cursor.getString( columnIndex: 2));
                 khachHang.setDoituong(cursor.getString( columnIndex: 3));
                 khachHang.setThanhtoan(cursor.getString( columnlndex: 4));
                 khachHang.setKhuvuc(cursor.getInt( columnIndex: 5));
                 return khachHang;
                                                                                                                     △ / ★ 14 △
             public List<KhachHang> getAllKhachHang (){
                 List<KhachHang> khachHangs = new ArrayList<->();
                 Cursor cursor= db.query(DbHelper.TABLE_KHACHHANG,
                          allColumns,
                          selection: null,
                          selectionArgs: null,
                          groupBy: null,
 78
                          having: null,
                          orderBy: null);
 80
                 if (cursor.getCount() > 0){
 81
                     cursor.moveToFirst();
                     while (!cursor.isAfterLast()){
                          KhachHang values= cursorKhachHang(cursor);
                          khachHangs.add(values);
                          cursor.moveToNext();
                     cursor.close();
                 }
                 return khachHangs;
             }
 90
 91
            2 usages
            public Boolean KtraKH(int id){
                 Boolean <u>tontai</u>= false;
                 List<KhachHang> khachHangs = getAllKhachHang();
                 int \underline{i}=0;
                 while ((!tontai) && (i < khachHangs.size())){
                     if (khachHangs.get(\underline{i}).getMskh() == id)
                         tontai = true;
                     else <u>i</u>++;
                 return tontai;
            1 usage
            public void clode(){
                 db.close();
104
                 dbHelper.close();
106
        }
108
```

4. Tạo Activity ThongTinKhachHang cho phép thực hiện các thao tác cơ bản trên CSDL và thiết kế giao diện

```
activity_thong_tin_khach_hang.xml ×
        <?xml version="1.0" encoding="utf-8"?>
 2 C
       <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
            xmlns:app="http://schemas.android.com/apk/res-auto"
            xmlns:tools="http://schemas.android.com/tools"
            android:id="@+id/main"
            android:layout_width="match_parent"
            android:layout_height="match_parent"
        android:orientation="vertical"
9
            tools:context=".giaodien.ThongTinKhachHang">
            <ScrollView
               android:layout_width="match_parent"
                android:layout_height="0dp"
               android:layout_weight="1">
13
               <TextView
14
                    android:layout_width="match_parent"
                    android:layout_height="wrap_content"
                    style="@style/TextStyle"
                    android:id="@+id/txt_thongtin"/>
19
            </ScrollView>
            <LinearLayout
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:orientation="horizontal"
24
                android:gravity="center">
               <Button
                   android:id="@+id/btn_them"
26
                    style="@style/ButtonStyle"
                    android:onClick="ThemKhachHang"
                    android:text="Thêm" />
31
               <Button
                    android:id="@+id/btn_chinhsua"
                    style="@style/ButtonStyle"
                    android:onClick="ChinhSuaKhachHang"
                    android:text="Chinh sửa" />
37
               <Button
                   android:id="@+id/btn_xoa"
38
                    style="@style/ButtonStyle"
                    android:onClick="XoaKhachHang"
40
                    android:text="Xóa" />
           </LinearLayout>
42
43
       </LinearLayout>
```

 điều chỉnh mã lệnh Java cho ThongTinKhachHang cho phép thực hiện các thao tác cơ bản trên CSDL

```
○ ThongTinKhachHang.java ×
          package com.example.ql_sudungnuoc.giaodien;
 1
 2
 3
         > import ...
19
20 ▷❖ public class ThongTinKhachHang extends AppCompatActivity {
              KhachHangAdapter khachHangAdapter;
              KhachHang khachHang;
              @Override
23
24 ©
              protected void onCreate(Bundle savedInstanceState) {
                   super.onCreate(savedInstanceState);
                   setContentView(R.layout.activity_thong_tin_khach_hang);
                   khachHangAdapter = new KhachHangAdapter( context: this);
                   hienThiKH();
28
29
              4 usages
              public void hienThiKH(){
                  List<KhachHang> khachHangs = khachHangAdapter.getAllKhachHang();
                  TextView txtThongTin = findViewById(R.id.txt_thongtin);
32
33
                   String strThongTin = "Thông tin khách hàng";
                   int size = khachHangs.size();
34
                   if(size>0){
                       for(int \underline{i}=0; \underline{i}<size; \underline{i}++) {
36
                           khachHang = khachHangs.get(\underline{i});
                           strThongTin += "\n\n Ho tên: " + khachHang.getHoten();
                           strThongTin += "\n Số điện thoại: " +
                                    khachHang.getDienthoai();
40
```

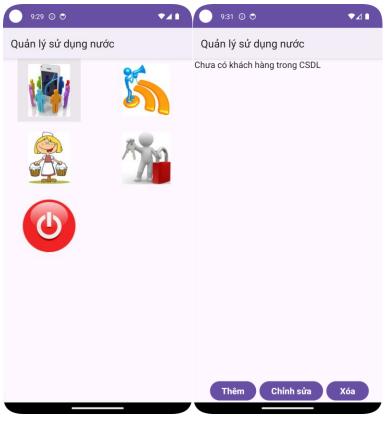
```
41
                           strThongTin += "\n Đối tượng sử dụng: " +
                                   khachHang.getDoituong();
                           strThongTin += "\n <u>Hình</u> thức thanh toán: " +
                                   khachHang.getThanhtoan();
                           strThongTin += "\n Khu vực: " + khachHang.getKhuvuc();
                      }
                      txtThongTin.setText(strThongTin);
                  }
                  else
                      txtThongTin.setText("Chưa có khách hàng trong CSDL");
              }
              public void ThemKhachHang(View view){
                  khachHang = new KhachHang( mskh: 1, hoten: " Nguyễn Văn Hùng", dienthoai: "0908000900",
                           doituong: "Hô nghèo", thanhtoan: "Chuyển khoản", khuvuc: 10);
                  if(khachHangAdapter.KtraKH(khachHang.getMskh()))
                      Toast.makeText( context: this, text: "Khách hàng đã có trong CSDL",
                               Toast.LENGTH_SHORT).show();
                  else
                      khachHangAdapter.insertKhachHang(khachHang);
                  khachHang = new KhachHang( mskh: 2, hoten: "Lê Thị Nhung", dienthoai: "0908000901",
                           doituong: "Sản xuất", thanhtoan: "Chuyển khoản", khuvuc: 5);
                  if(khachHangAdapter.KtraKH(khachHang.getMskh()))
                      Toast.makeText( context: this, text: "Khách hàng đã có trong CSDL",
                              Toast.LENGTH_SHORT).show();
                      khachHangAdapter.insertKhachHang(khachHang);
                  hienThiKH();
              }
68
              public void ChinhSuaKhachHang(View view){
                  khachHangAdapter.updateKhachHang( mskh: 2, strHoTen: "Lê Thị Nhung", strDienThoai: "0908000901",
                           strDoiTuong: "Kinh doanh", strThanhToan: "Chuyển khoản", khuvuc: 7);
                  hienThiKH();
              }
74
              public void XoaKhachHang(View view){
                  khachHangAdapter.deleteKhachHang( mskh: 1);
                  hienThiKH();
78
              }
79
              @Override
              protected void onDestroy() {
81 6
82
                  super.onDestroy();
                  khachHangAdapter.clode();
84
              }
85
          }
```

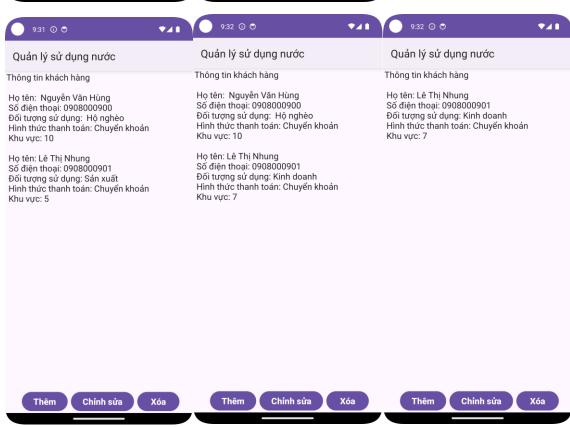
 điều chỉnh mã lệnh Java cho MainActivity_GridView (Bài tập buổi 5) cho phép thêm thực đơn mở Activity ThongTinKhachHang

```
MainActivity_GridView.java ×
             package com.example.ql_sudungnuoc.giaodien;
           > import ...
14 > 💠 public class MainActivity_GridView extends AppCompatActivity {
16 🖾 🖾
                 private Integer[] Images = {R.mipmap.nhanvien, R.mipmap.thongbαo,
17 🖾 🖾 🚳
                          {\tt R.mipmap.} \textit{khachhang}, \ {\tt R.mipmap.} \textit{dangnhap}, \ {\tt R.mipmap.} \textit{thoat} \ \};
                 1 usage
18
                 Class[] arrClasses = { ThongTinNhanVien.class, ThongBao.class,
                          ThongTinKhachHang.class, DangNhap.class };
20
                 @Override
21 6
                 protected void onCreate(Bundle savedInstanceState) {
                     super.onCreate(savedInstanceState);
                     setContentView(R.layout.activity_main_grid_view);
                     GridView dqvMenu = findViewById(R.id.dqv_menu);
                     ImageAdapter imageAdapter = new ImageAdapter( context: this, Images);
                      dgvMenu.setAdapter(imageAdapter);;
                      dgvMenu.setOnItemClickListener(new ChonCongViec());
28
29
                 }
                 private class ChonCongViec implements AdapterView.OnItemClickListener {
                     @Override
34 CT
                     public void onItemClick(AdapterView<?> adapterView, View view, int i, long l){
35
                          if(i==4){
                              finish();;
                          }
                          else {
                              Intent intent = new Intent ( packageContext: MainActivity_GridView.this, arrClasses[i]);
39
                              startActivity(intent);
41
                      }
44
45
```

7. thực thi code

Bài tập Phát triển ứng dụng trên thiết bị di động_TN216





Com.example.ql_sudung drwx	2024-03-29 21:31 4 KB
> 🗀 cache drwx	rwsx 2024-03-29 21:31 4 KB
> 🗀 code_cache drwx	rwsx 2024-03-29 21:31 4 KB
∨ □ databases drwx	rwxx 2024-03-29 21:31 4 KB
≡ SuDungNuoc.db -rw-	rw 2024-03-29 21:32 20 KE
≡ SuDungNuoc.db-j⊢-rw-l	rw 2024-03-29 21:32 0 B
> 🗀 files drwx	rwxx 2024-03-29 21:31 4 KB