**package** com.pru\_ybs.musicquiz;  
  
**import** android.content.ContentValues;  
**import** android.content.Context;  
**import** android.database.Cursor;  
**import** android.database.sqlite.SQLiteDatabase;  
**import** android.database.sqlite.SQLiteOpenHelper;  
  
**import** com.pru\_ybs.musicquiz.QuizContract.\*;  
  
**import** androidx.annotation.Nullable;  
  
**import** java.util.ArrayList;  
**import** java.util.List;  
  
**public class** QuizHelper **extends** SQLiteOpenHelper {  
 **private static final** String ***DATABASE\_NAME*** =**"MusicQuiz.db"**;  
 **private static final int *DATABASE\_VERSION*** = 1;  
  
 **private** SQLiteDatabase **db**;  
  
 QuizHelper(@Nullable Context context) {  
 **super**(context,***DATABASE\_NAME***,**null**,***DATABASE\_VERSION***);  
 }  
  
 @Override  
 **public void** onCreate(SQLiteDatabase db) {  
 **this**.**db** =db;  
  
 **final** String SQL\_CREATE\_QUESTION\_TABLE =**"CREATE TABLE "** +  
 QuestionsTable.***TABLE\_NAME*** + **"("** +  
 QuestionsTable.***\_ID*** +**"INTEGER PRIMARY KEY AUTOINCREMENT,"** +  
 QuestionsTable.***COLUMN\_QUESTION*** + **"TEXT"** +  
 QuestionsTable.***COLUMN\_OPTION1*** + **"TEXT "** +  
 QuestionsTable.***COLUMN\_OPTION2*** + **"TEXT"** +  
 QuestionsTable.***COLUMN\_OPTION3*** + **"TEXT"** +  
 QuestionsTable.***COLUMN\_ANSWER\_NR*** + **"INTEGER"** +  
 **")"** ;  
 db.execSQL(SQL\_CREATE\_QUESTION\_TABLE);  
 fillQuestionsTable();  
  
 }  
  
 @Override  
 **public void** onUpgrade(SQLiteDatabase db, **int** oldVersion, **int** newVersion) {  
 db.execSQL(**"DROP TABLE IF EXISTS "** + QuestionsTable.***TABLE\_NAME*** );  
 onCreate(db);  
  
  
 }  
 **private void** fillQuestionsTable(){  
 Question q1 = **new** Question(**"Beş paralel çizgi ve dört aralıktan oluşan, müziğin yazıya dökülmesi için kullanılan görseldeki bu aracın adı nedir?"**, **"A:OKTAV"** , **"B:NOTA"** ,**"C:PORTRE"**,1);  
 addQuestion(q1);  
 Question q2 = **new** Question(**"Hangisi müziğin 3 ana öğesinden biri değildir?"**, **"A:ROTA"** , **"B:RİTM"** ,**"C:ARMONİ"**,2);  
 addQuestion(q2);  
 Question q3 = **new** Question(**"Hangisi telli çalgılardan biri değildir?"**, **"A:AKORDİYON"** , **"B:TAMBUR"** ,**"C:PİYANO"**,3);  
 addQuestion(q3);  
 Question q4 = **new** Question(**"Perdesiz gitarın mucidi ünlü sanatçımızın adı nedir?"**, **"A:YAVUZ ÇETİN"** , **"B:BÜLENT ORTAÇGİL"** ,**"C:ERKAN OĞUR"**,4);  
 addQuestion(q4);  
 Question q5 = **new** Question(**"Hangisi müzikteki erkek seslerinden biri değildir? "**, **"A:BARİTON"** , **"B:SOPRANA"** ,**"C:TENOR"**,5);  
 addQuestion(q5);  
 Question q6 = **new** Question(**"Müzik seslerini yazmak için kullandığımız notalar kaç tanedir?"**, **"A:7"** , **"B:9"** ,**"C:8"**,6);  
 addQuestion(q6);  
 Question q7 = **new** Question(**"Hangisi müzikteki kadın seslerinden biri değildir?"**, **"A:BAS"** , **"B:MEZZO SOPRANA"** ,**"C:ALTO"**,7);  
 addQuestion(q7);  
  
  
 }  
  
 **private void** addQuestion(Question question){  
 ContentValues cv = **new** ContentValues();  
 cv.put(QuestionsTable.***COLUMN\_QUESTION***,question.getQuestion());  
 cv.put(QuestionsTable.***COLUMN\_OPTION1***,question.getOption1());  
 cv.put(QuestionsTable.***COLUMN\_OPTION2***,question.getOption2());  
 cv.put(QuestionsTable.***COLUMN\_OPTION3***,question.getOption3());  
 cv.put(QuestionsTable.***COLUMN\_ANSWER\_NR***,question.getAnswerNr());  
 **db**.insert(QuestionsTable.***TABLE\_NAME***,**null**, cv);  
 }  
  
 List<Question> getAllQuestions(){  
 List<Question> questionList =**new** ArrayList<>();  
 **db** = getReadableDatabase();  
 Cursor c = **db**.rawQuery( **"SELECT \* FROM "** + QuestionsTable.***TABLE\_NAME***,**null**);  
 **if** (c.moveToFirst()){  
 **do**{  
 Question question = **new** Question();  
 question.setQuestion(c.getString(c.getColumnIndex(QuestionsTable.***COLUMN\_QUESTION***)));  
 question.setOption1(c.getString(c.getColumnIndex(QuestionsTable.***COLUMN\_OPTION1***)));  
 question.setOption2(c.getString(c.getColumnIndex(QuestionsTable.***COLUMN\_OPTION2***)));  
 question.setOption3(c.getString(c.getColumnIndex(QuestionsTable.***COLUMN\_OPTION3***)));  
 question.setAnswerNr(c.getInt(c.getColumnIndex(QuestionsTable.***COLUMN\_ANSWER\_NR***)));  
 questionList.add(question);  
  
  
  
  
  
 } **while** (c.moveToNext());  
 }  
 c.close();  
 **return** questionList;  
 }  
}