

# Lab project1



### 1. Create a Database

#### 1.1 Select a Blank Database

1.1.1 From the Access Welcome screen

1.1.2 From the File > New menu

1.2 Name the Database Music

1.3 Your New Database!









Info

New

Open

Save As

Close

Account

Feedback

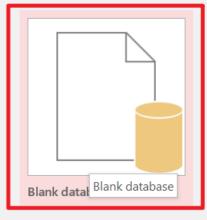
Options

### New

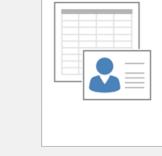
Search for online templates



Suggested searches: Database Business Logs Industry Lists Personal Contacts









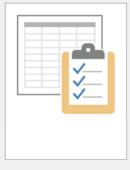
Asset tracking

Contacts

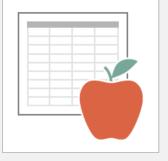
Students







Task management



Nutrition tracking



Charitable contributions

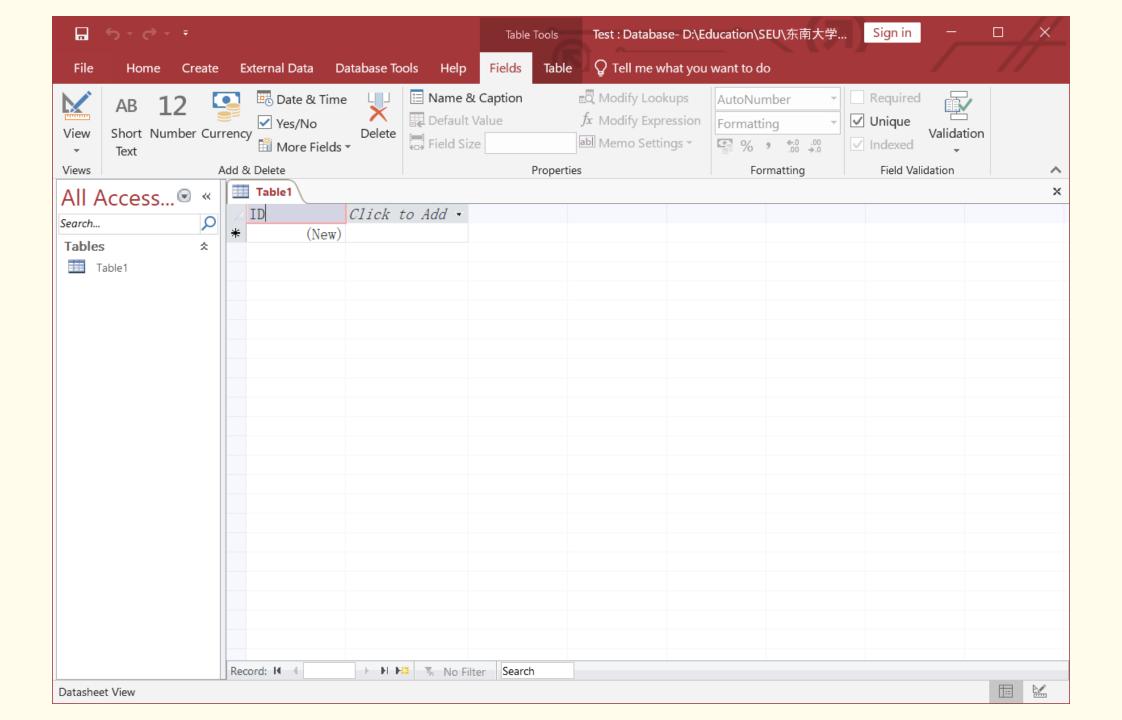
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### 2. Create a Table

#### 2.1 Customize the Blank Table

- 2.1.1 Select a Data Type for the New Field
- 2.1.2 Name the Field
- 2.1.3 Rename the First Field
- 2.1.4 Save the Table
- 2.1.5 Your Finished Table





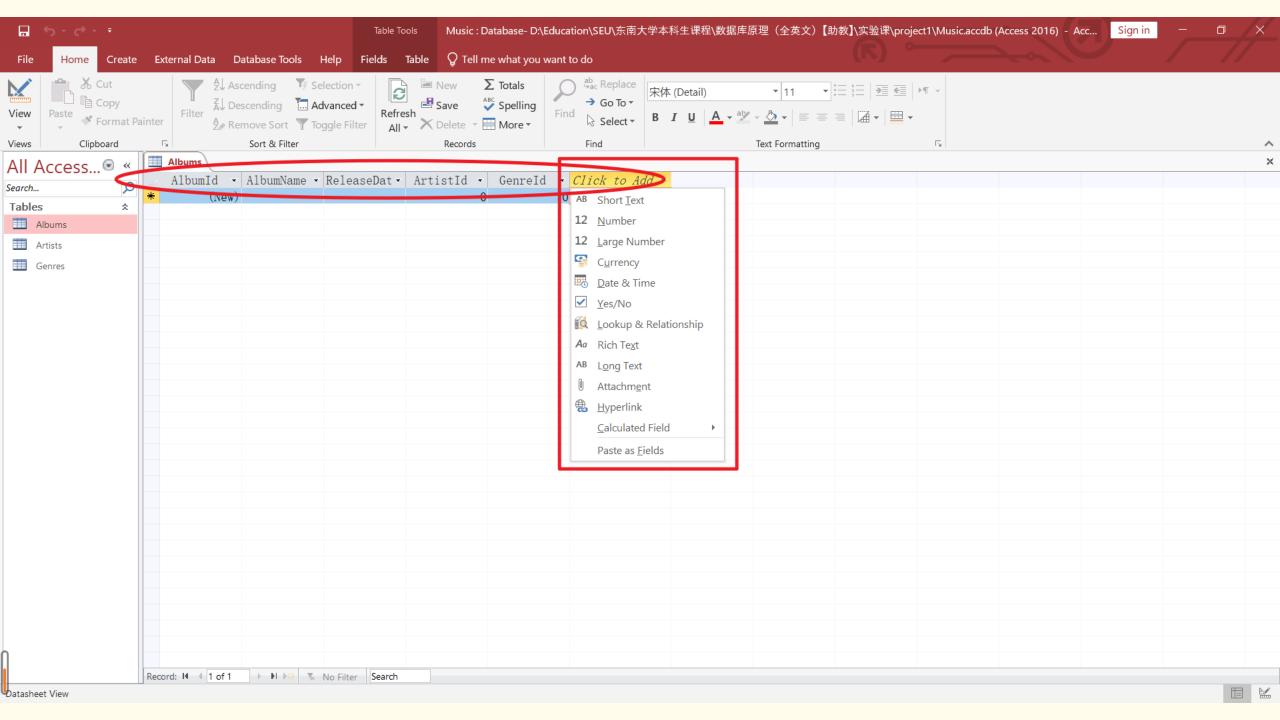
## 2. Create a Table

#### 2.2 Create a New Table

#### 2.2.1 Create a New Table Albums

#### 2.2.2 Set up the Fields

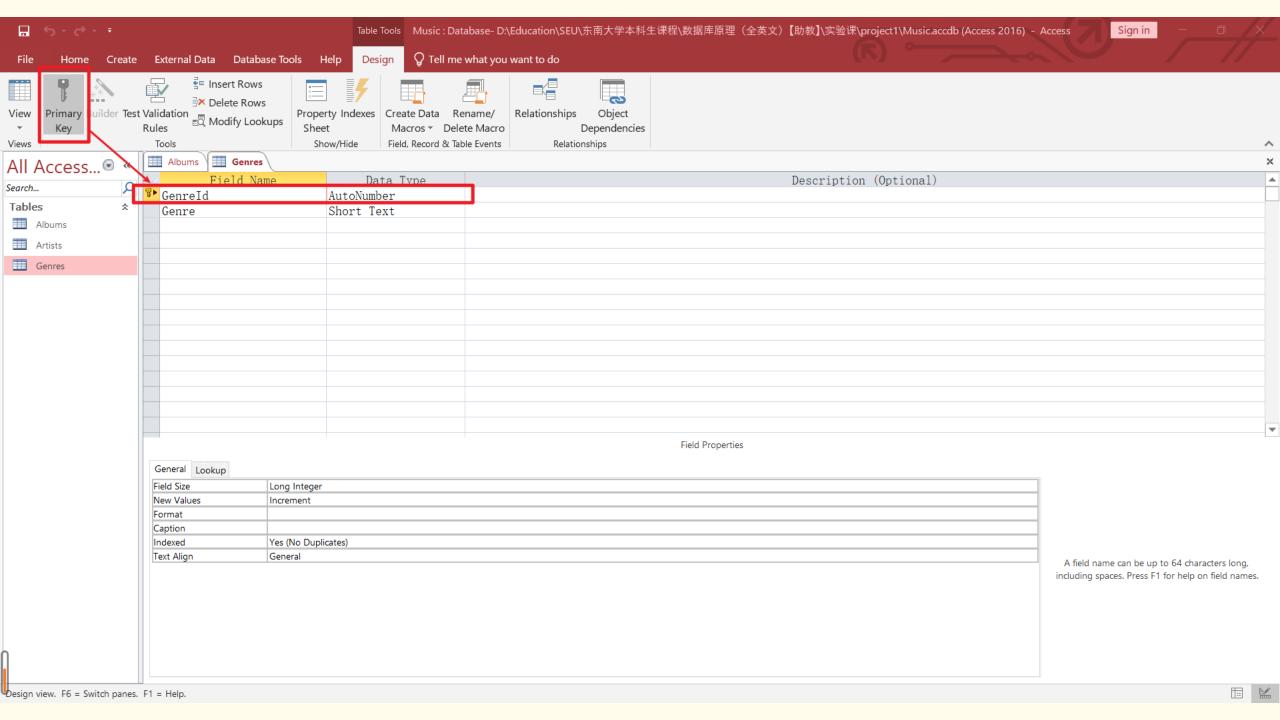
Field Name	Data Type
AlbumId	(Leave it as is)
AlbumName	Short Text
ReleaseDate	Date & Time
Artistld	Number
Genreld	Number





# 3. Create a Table in Design View

- 3.1 Create the Table Genres
- 3.2 Add Fields to the Table
- 3.3 Change the *Genre* Field Properties
- 3.4 Set a Primary Key
- 3.5 Save the Table



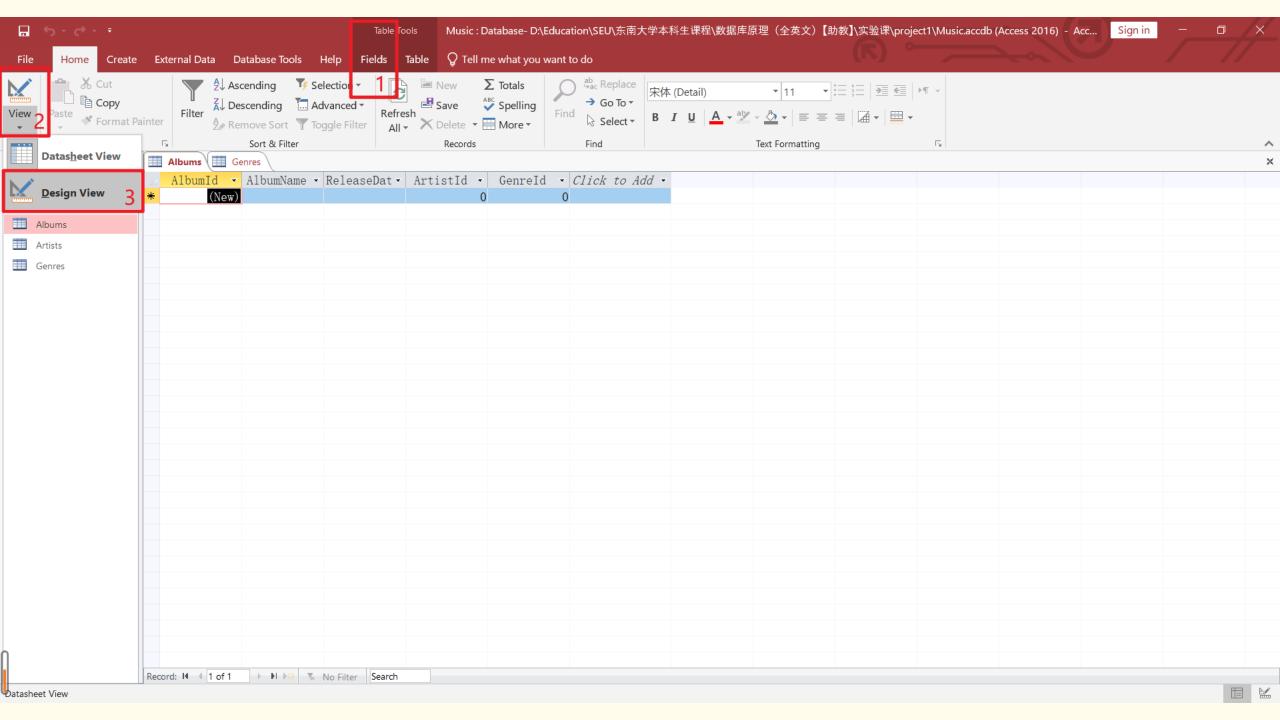


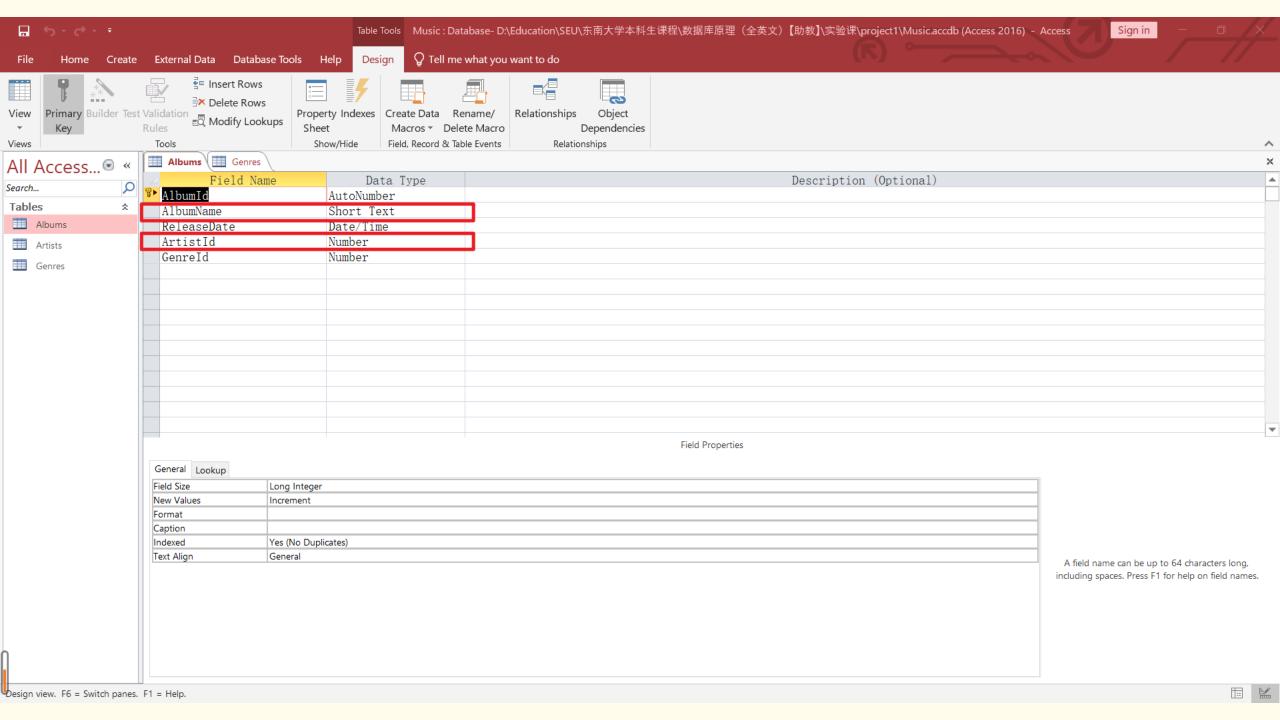
# 4. Set the Field Properties for an Existing Table

4.1 Open the Albums table in Design View

4.2 Modify the *AlbumName* Field

4.3 Modify the ArtistId Field



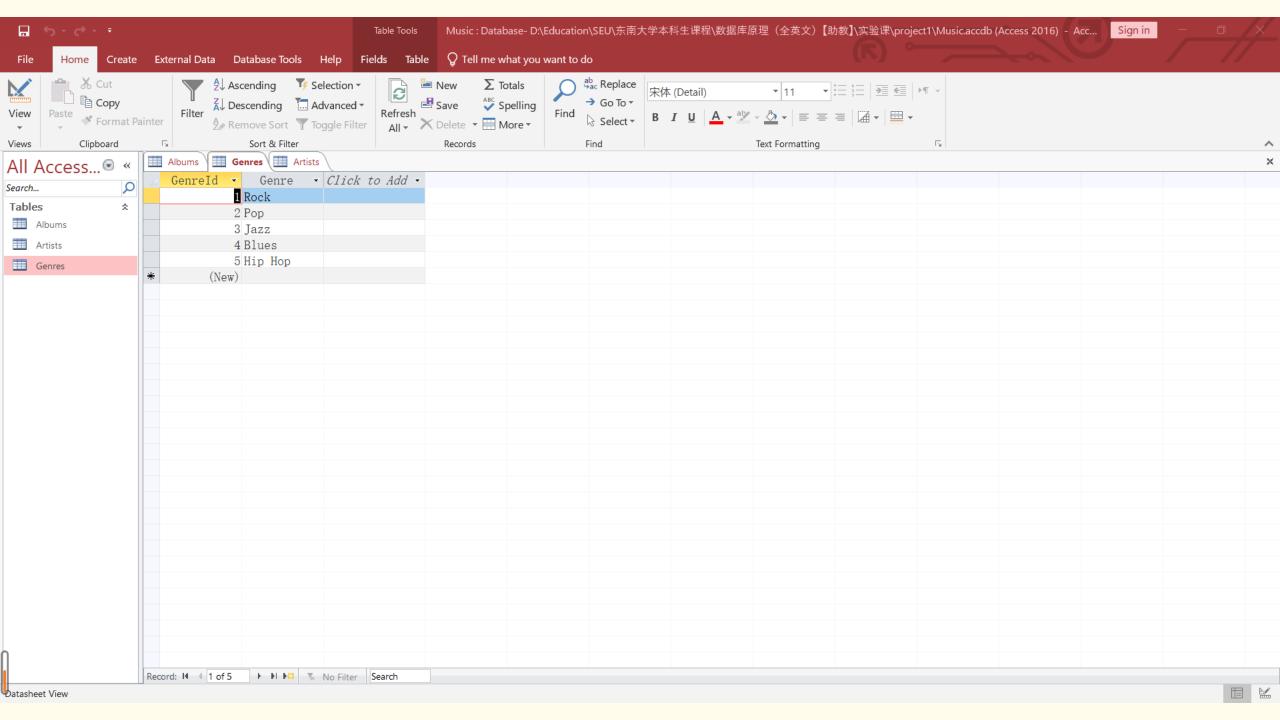




### 5. Add Data to a Table

- **5.1 Add Records Directly into Datasheet View**
- 5.2 Add Data using a Form
- 5.3 Add Data using SQL
- 5.4 Import Data from an External Source

Genreld*	Genre
(Autonumber)	Rock
(Autonumber)	Рор
(Autonumber)	Jazz
(Autonumber)	Blues
(Autonumber)	Нір Нор





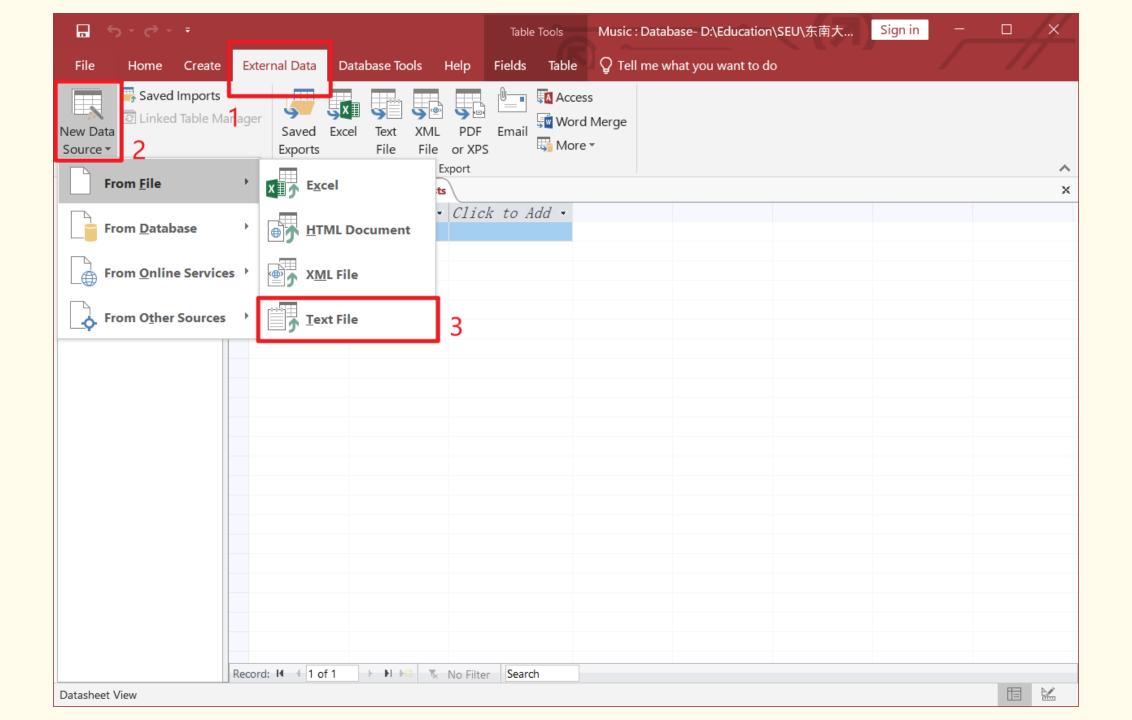
# 6. Import Data into Access

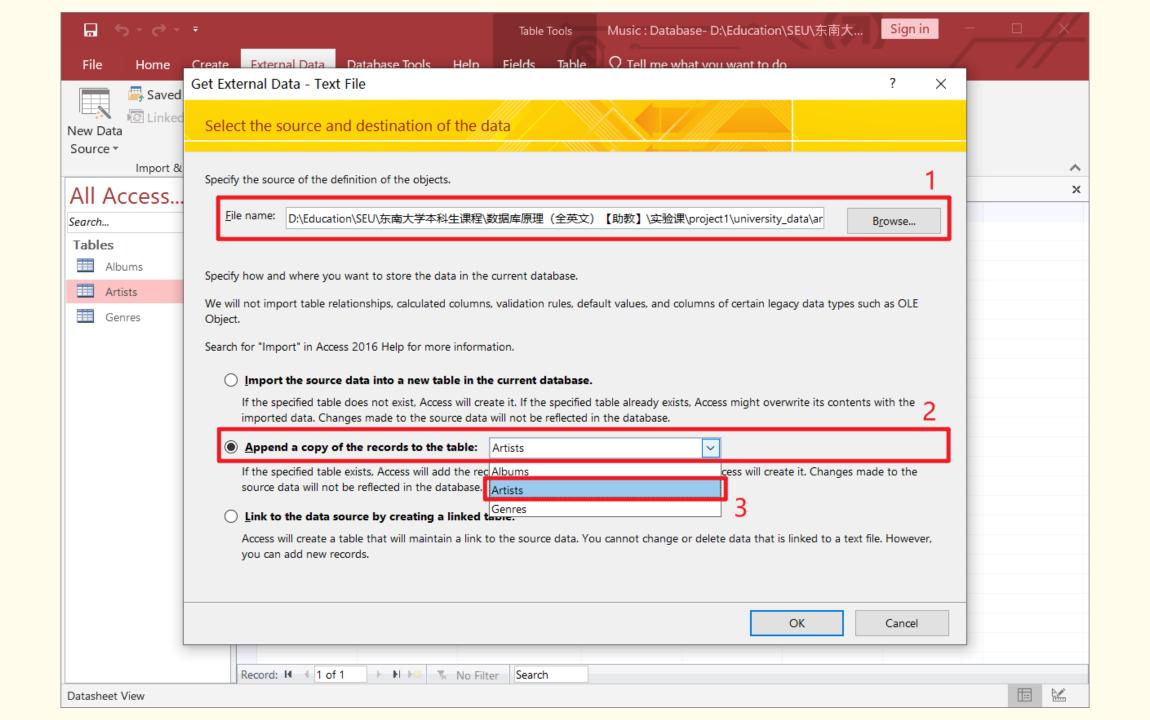
- 6.1 Import a CSV File into an Existing Table
- **6.2** Launch the Import Wizard
- 6.3 Select the Source File & Destination Table
- **6.4 Review the Format Options**
- 6.5 Select/Review the Delimiter

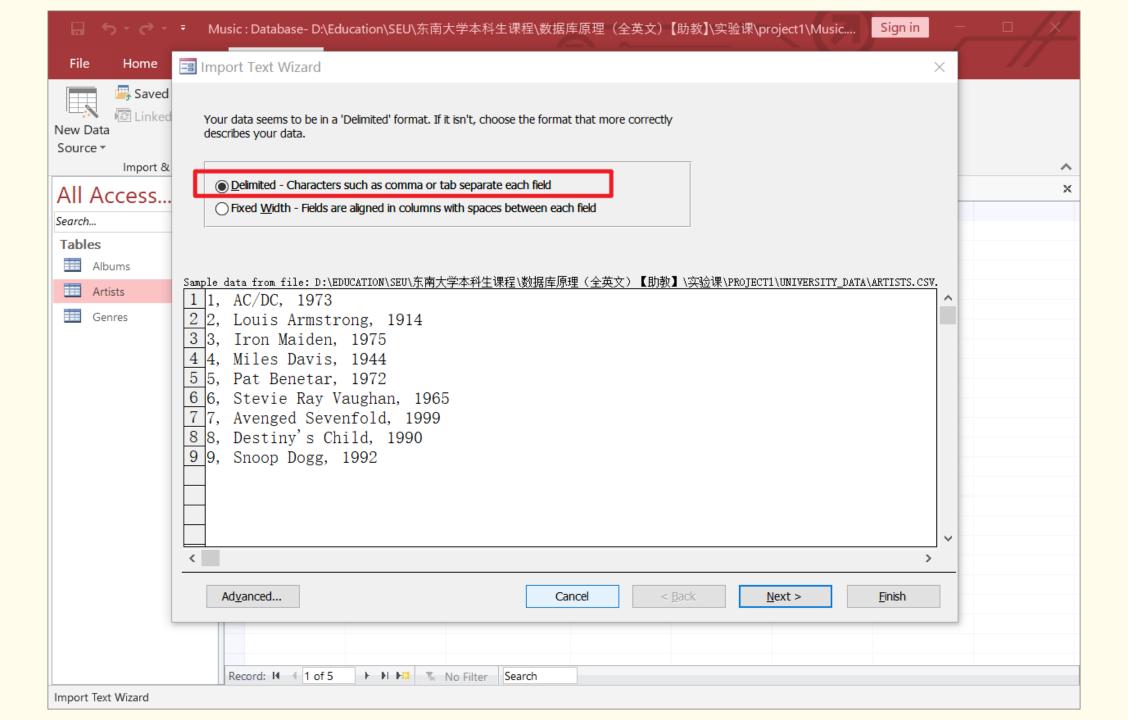


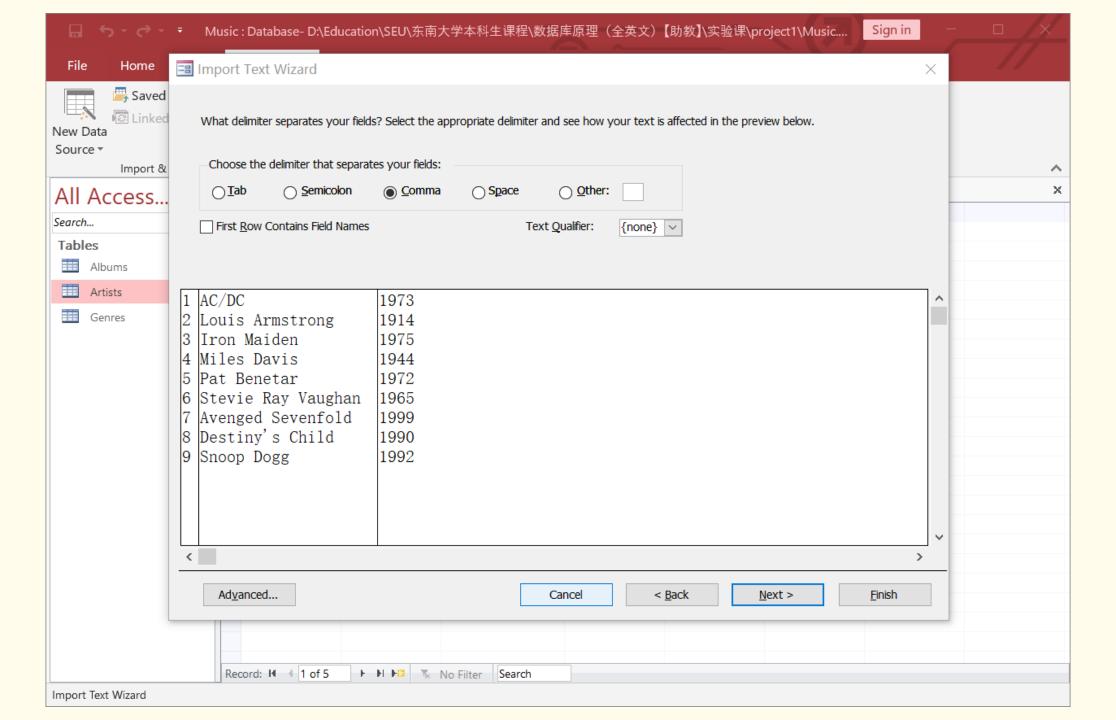
# 6. Import Data into Access

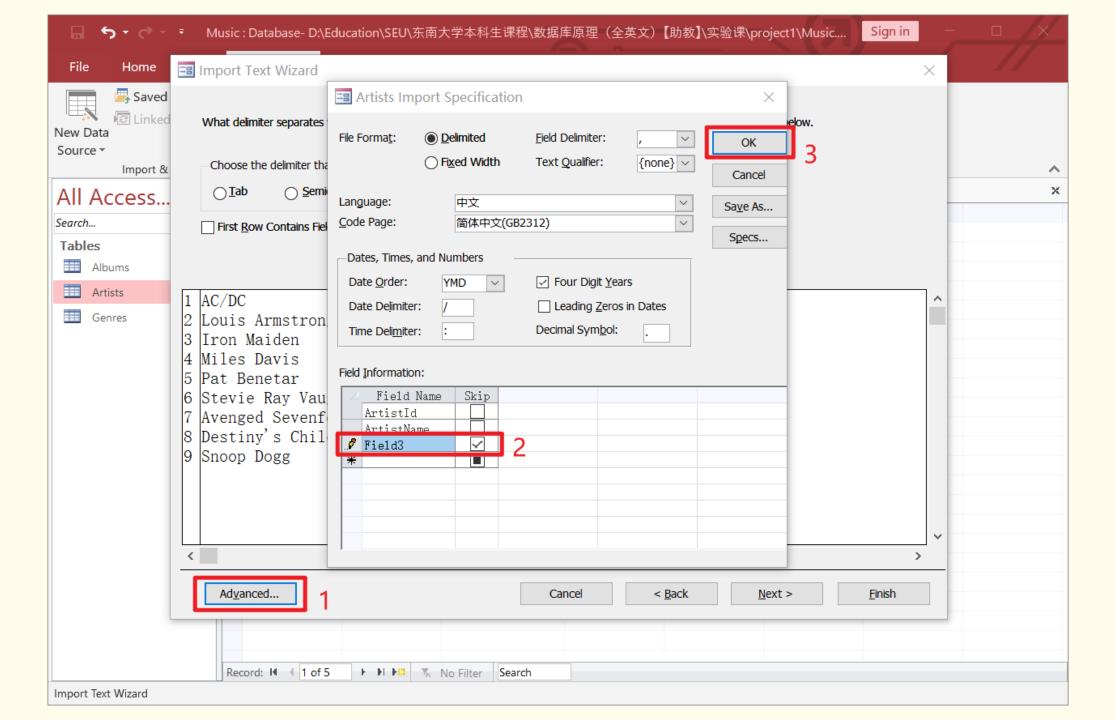
- 6.6 Skip the Extra Field
- 6.7 Continue the Wizard
- **6.8** Run the Import
- 6.9 Close the Wizard
- 6.10 Check that the data has been Imported

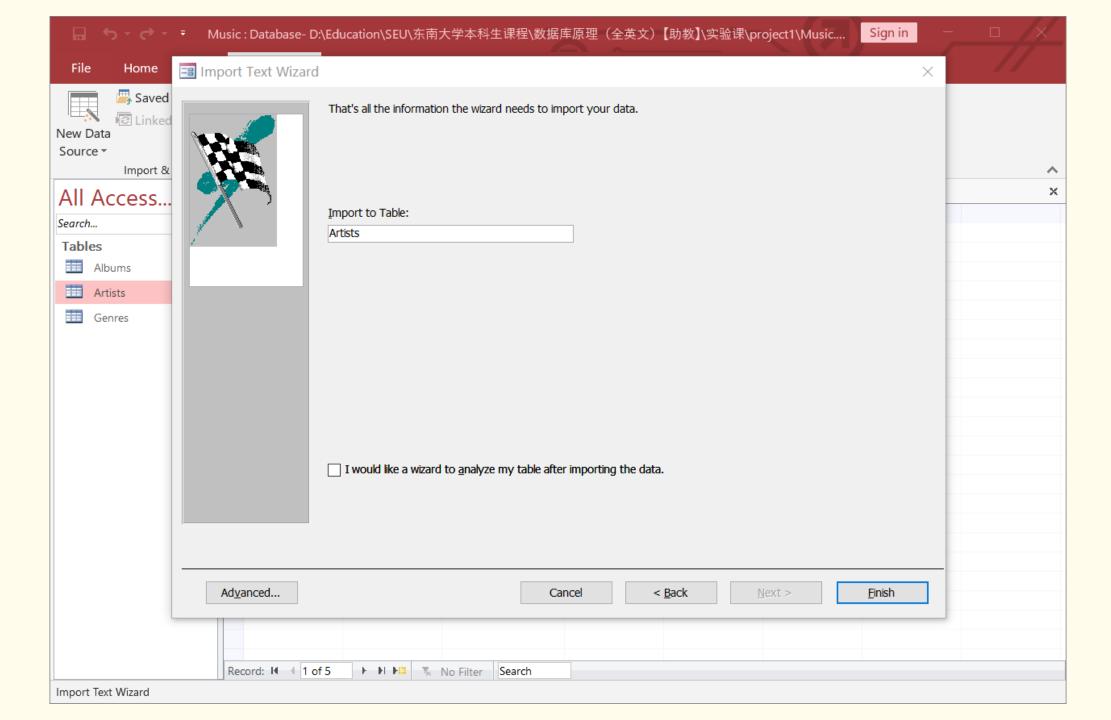


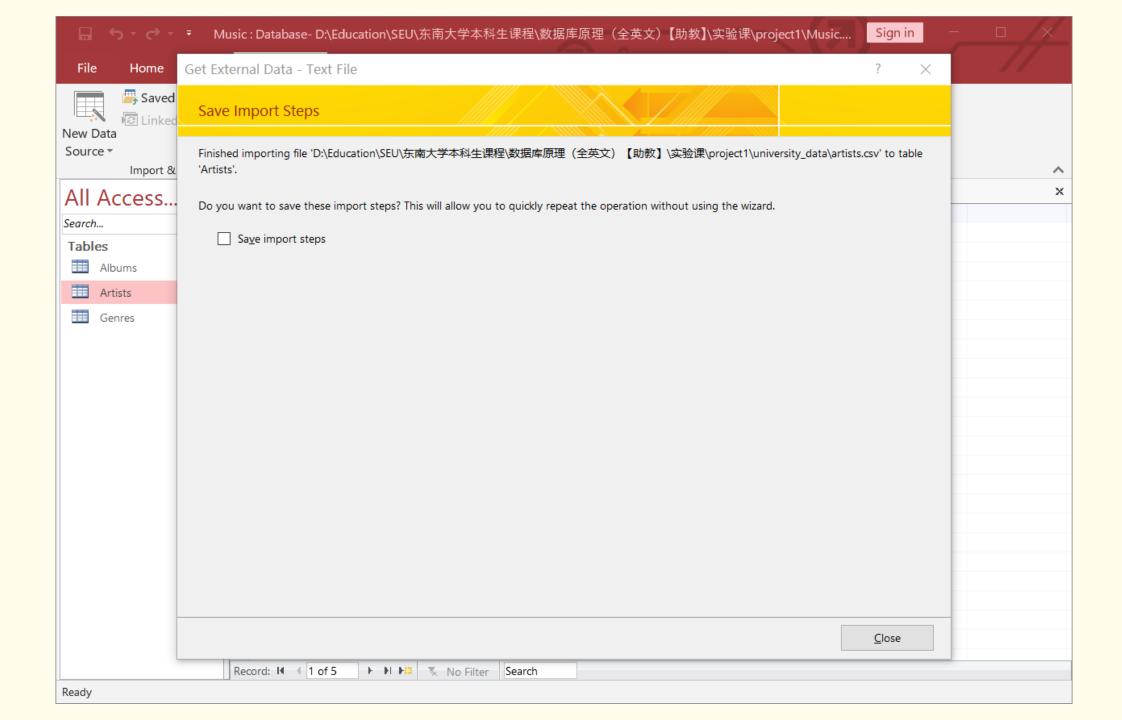


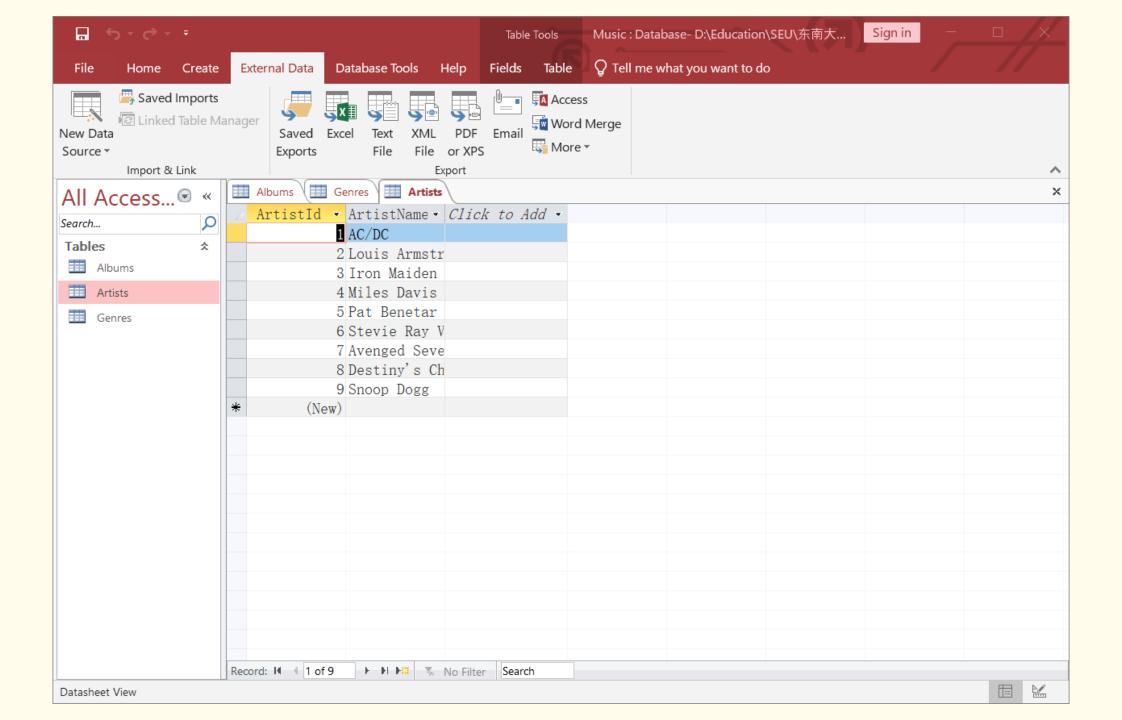














# Assignment1



## **Content**

- **✓** Familiar with MS Access
- ✓ Establish a university database
  - university.mdb
- ✓ Load data into the database
- ✓ Make a group of random tuples for student table and let student has more than 5000 tuples



# **Schema and Sample Data**

■ The schema of the database is provided below (keys are in bold, field types are omitted): student(sid, sname, sex, age, year, gpa) dept(dname, numphds) prof(**pname**, dname) course(cno, cname, dname) major(dname, sid) section(dname, cno, sectno, pname) enroll(sid, grade, dname, cno, sectno)

■ Before you start writing SQL, it is a good idea to take a look at the database and familiarize yourself with its contents.



### **Data Files**

- Download the following data files from WeChat group files
  - > course.txt
  - > dept.txt
  - > enroll.txt
  - > major.txt
  - > prof.txt
  - > section.txt
  - > student.txt



## **Submission**

• File name format:

StudentNumber\_A1.zip

including:

report\_A1.doc/ report\_A1.docx university\_A1.mdb/university\_A1.accdb

Deadline: Beijing time, September 2<sup>nd</sup>, 23:59:00

Send your questions and projects to TAs: seudatabaseqa@gmail.com