

Midterm Instructions

Midterm (30 points)

Database File: [chinook.db](#)

Submission File: [midterm.yaml](#)

We have designed this midterm with a flexible schedule in mind. With this flexibility, please understand that we will not accept late submissions for the midterm, except in exceptional, documented circumstances that are beyond your control (e.g., an auto accident, illness, family emergencies, etc.).

Warning

You must **work alone** on the midterm, this includes both parts. You may not use ChatGPT or other LLMs to solve the problems for you, nor may you consult the internet (e.g. asking a question on StackOverflow or GitHub community).

Approved Resources: lecture slides/demos, notes, discussion section materials, piazza posts from our class, the suggested textbook, an instance of `sqlite3` and or `psql` or any official online documentation for the tools we are using (e.g. `sqlite3`, or `postgresql`)

We will not answer any questions on Piazza, in person, or during section/OHs during the exam. If there is a catastrophic issue you are facing or an emergency, please contact me and CC all TAs. Thank you and good luck!

Midterm Examination Format

The midterm exam will be accessible for a couple of days. Check Gradescope for the official Start and End availability times. The midterm exam consists of two distinct parts that can be taken at any time and in any order.

Autograded Component:

- This part requires you to submit **SQLite** (NOT Postgres) queries to an autograder via Gradescope, similar to the procedure used for homework submissions 1 and 2.
- There will be a Gradescope "Assignment" called **Midterm (Query Questions)**. Once you open this assignment to get the questions, your time will start. You do not have to submit anything to this assignment.
- You will work on your queries and submit your solution `.yaml` file to **Midterm (YAML**

Submission). Note that you only have **FIVE** submission attempts.

- We will compare your start time of **Midterm (Query Questions)**, with the submission times to **Midterm (YAML Submission)** to ensure you are under the 1 hour and 15 minute mark.
- Any submission later than 1 hour and 15 minutes **will not be accepted**.
- For incorrect queries, we will grade them manually for partial credit.

Multiple Choice Section:

- This will be a 30 question multiple choice exam administered through Gradescope.
- You have 45 minutes to complete this section once you start it.
- This will be on Gradescope titled **Midterm (MCQs)**

Chinook Dataset

We recommend that you have your sqlite3 instance and the chinook database ready to go! Do not waste any time setting this stuff up during the timed section.

Connect to the db and view all the relations

```
sqlite3 chinook.db
sqlite> .tables

albums          employees       invoices       playlists
artists         genres         media_types   tracks
customers      invoice_items  playlist_track
```

You can use the following command to find out the schema of a particular table in chinook database via the SQLite3 command-line shell program. For example try:

```
.schema artists
```

Here is the output

```
CREATE TABLE IF NOT EXISTS "artists"
(
  [ArtistId] INTEGER PRIMARY KEY AUTOINCREMENT NOT NULL,
  [Name] NVARCHAR(120)
);
```