

# Midterm Exam

## Physical Database Design Questions (30% weight)

Answer each question in English in the space provided below.

Reference the provided database table design. Each table has a primary key. Not every table has a foreign key. Some tables have more than one foreign key.

For each table:

- Identify the set of one or more attributes which is likely to be a **primary key**.
- If there are any sets of one or more attributes which are likely to be a **foreign key**, identify each and indicate which related table it is most likely to reference.

State assumptions as necessary to justify answers.

1. **songs table (30% \* 15% weight)**

2. **plays table (30% \* 20% weight)**

3. thumbs table (30% \* 20% weight)

4. skips table (30% \* 15% weight)

5. listeners table (30% \* 15% weight)

6. listener\_accounts table (30% \* 15% weight)