Midterm Exam

Data Analysis Questions (30% weight)

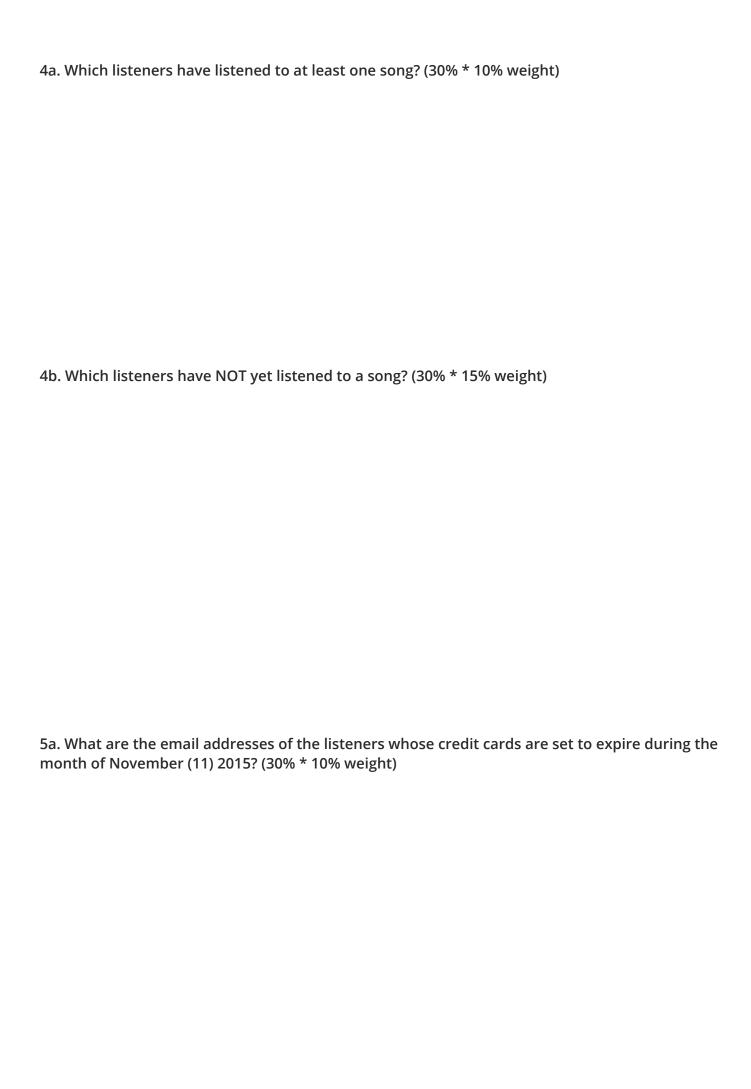Answer each question using a single query. Write the `SQL` in the space provided.

To represent an opportunity for bonus points, the questions below collectively represent a weight greater than (30% weight). Any score over (30% weight) will be rounded down to (30% weight).

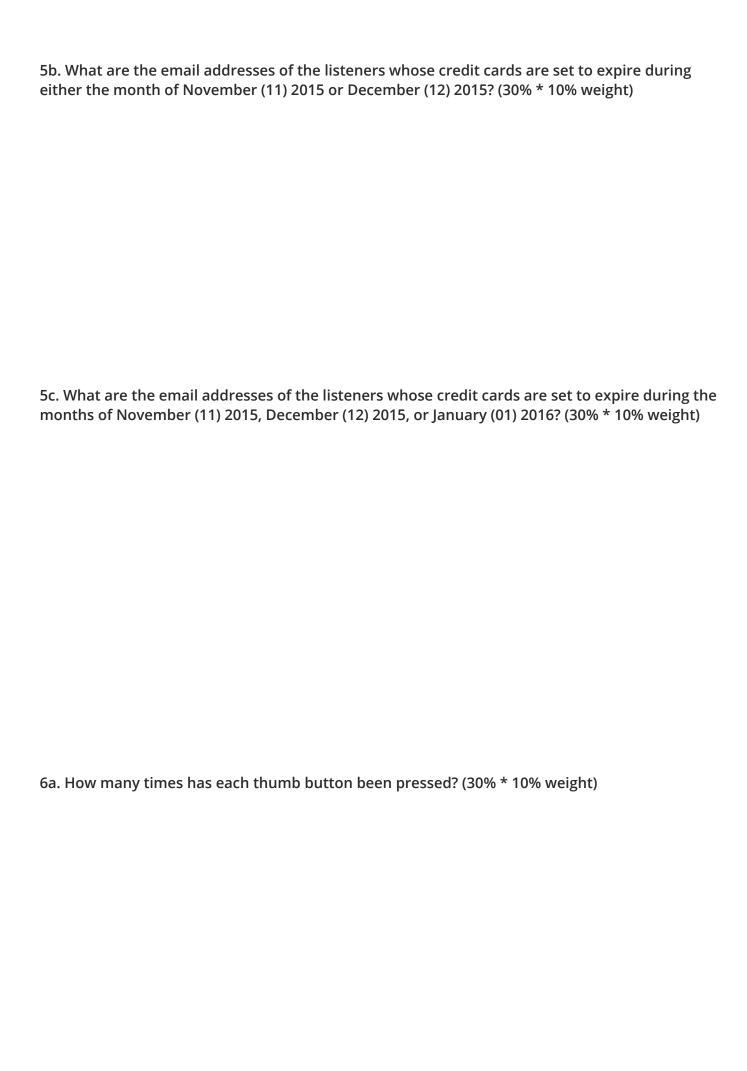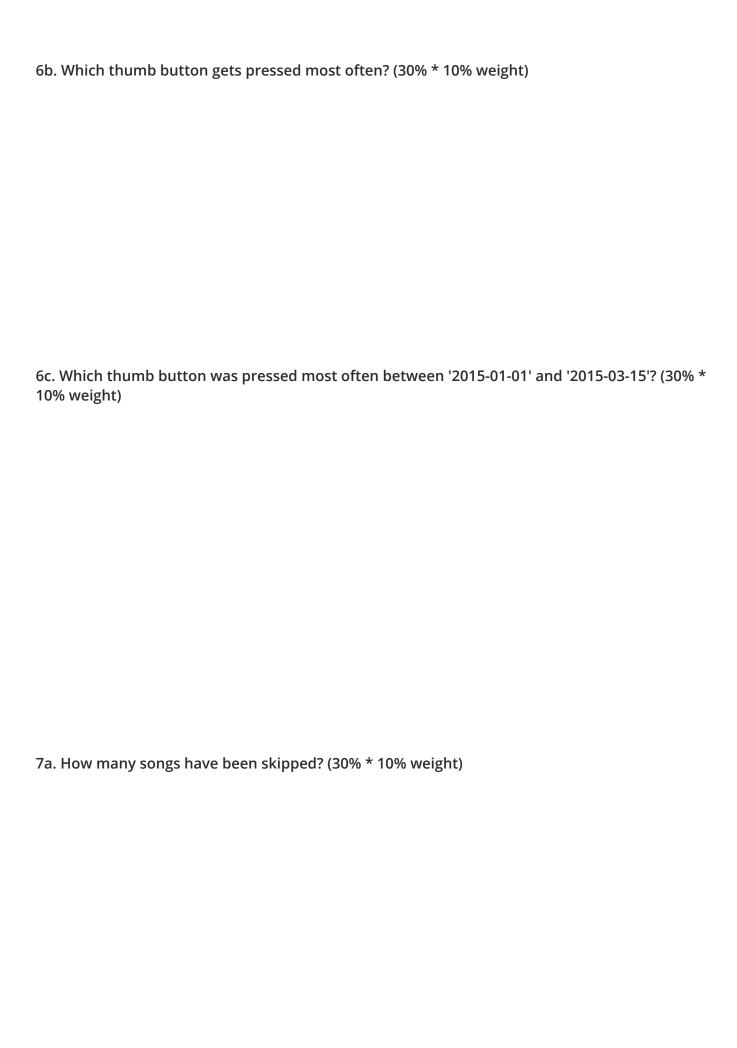**1a. Which listener has the email address, 'musicfan101@gmail.com'? (30% * 10% weight)**

1b. Which listeners have an email address that contains the text, '@gwu.edu'? (30% * 10% weight)

2a. How long is the longest song? (30% * 5% weight)

2b. How long is the shortest song? (30% * 5% weight)

3a. How many songs have been played? (30% * 10% weight)

3b. How many songs have NOT been played? (30% * 15% weight)

4a. Which listeners have listened to at least one song? (30% * 10% weight)

4b. Which listeners have NOT yet listened to a song? (30% * 15% weight)

5a. What are the email addresses of the listeners whose credit cards are set to expire during the month of November (11) 2015? (30% * 10% weight)

5b. What are the email addresses of the listeners whose credit cards are set to expire during either the month of November (11) 2015 or December (12) 2015? (30% * 10% weight)

5c. What are the email addresses of the listeners whose credit cards are set to expire during the months of November (11) 2015, December (12) 2015, or January (01) 2016? (30% * 10% weight)

6a. How many times has each thumb button been pressed? (30% * 10% weight)

6b. Which thumb button gets pressed most often? (30% * 10% weight)

6c. Which thumb button was pressed most often between '2015-01-01' and '2015-03-15'? (30% * 10% weight)

7a. How many songs have been skipped? (30% * 10% weight)

7b. How many songs have NOT been skipped? (30% * 10% weight)

7c. Which 100 songs have been skipped the most? (30% * 10% weight)