

Extra Credit Worksheet

Submit Assignment

Due No Due Date **Points** 30 **Submitting** a file upload

For all problems, use the following schema:

```

Musician(id, first_name, last_name, instrument, band_id)
Band(id, name, years_together)
Show(id, venue_id, date)
Played_in(band_id, show_id)
Venue(id, name, address)
Album(id, name, year, band_id, genre_id)
Genre(id, name, description)
Song(id, name, album_id)
  
```

Primary keys are in bold, foreign keys are in italics.

For each problem, write a query once using relational algebra, and again using SQL. Each problem is worth two possible points (one for each language), for a total of 30 possible points.

You can apply the points you receive to any past assignment or exam, distributed in any way you'd like, without going over the maximum points for that assignment or exam. The EC points cannot be saved for the final exam.

Problems:

1. Find the names of bands who have played together at least once.
2. Find the names of bands who have played together more than once.
3. Find the names of all songs that come from an album that fits into the genre "rock".
4. Find the ids of bands who have a member with the first name "John".
5. Find the names of all albums by bands who have played at the venue "The Hi-Dive".
6. Find the names of all songs by bands who have played at "The Gothic" and at "The Hi-Dive".
7. Find the names of albums that fit in the genre "Reggae" by bands containing a member whose instrument is "Saxophone".
8. Find the name of bands who have been together 4 or more years, AND who have an album with more than 10 songs.
9. Find the names of the musicians in all bands who played at "The Gothic" on 01-02-2018.

- 10. Find the names of all the venues that have hosted shows into the genre "Pop".
- 11. Find the descriptions of all genres for albums put out by t
- 12. Find the names of all bands that have a member who pla "Keyboard".
- 13. Find the id of all shows that includes a band who has bee
- 14. Find the instruments of all members of bands who have
- 15. Find the names of all genres for albums put out by bands

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