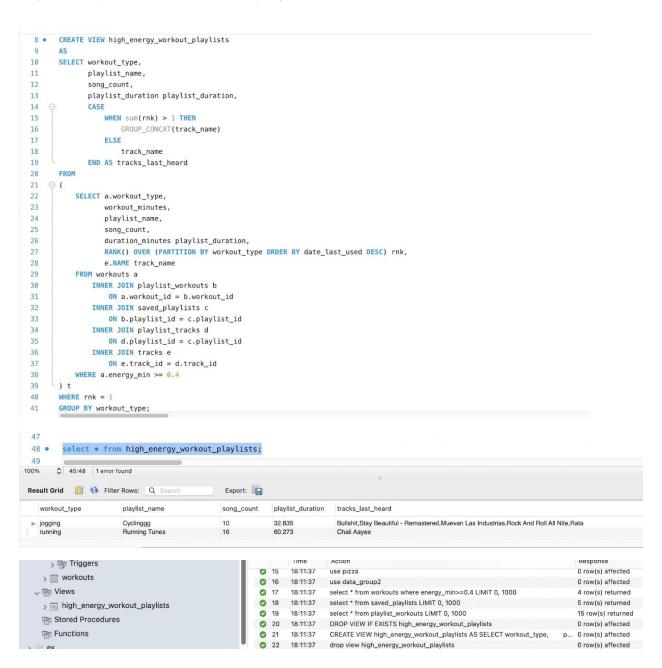
Deliverable 4

View 1:

This is a view that provides a list of all high energy workouts (minimum energy level=0.4) and the corresponding playlists the user has saved. The list also displays the number of songs in each playlist, playlist duration, names of tracks (comma separated) last heard from the playlist.



View 2:

We created a view for a couch-to-5k schedule with 6 weeks total. Playlists are provided to match the goal time for 5k. Users are able to select the number of weeks they want to spread the goal across as well as desired 5k time.

```
-- cte to calculate a running total of track length, which will be used -- to form playlists , playlist_duration AS
CREATE VIEW
       couch_to_5k
-- cte to filter song list down to those matching energy/tempo/danceability
          settings for running
                                                                                                                                          (
SELECT
                  run_params
                                                                                                                                         SELECT
                            tempo_min
, tempo_max
, energy_min
                                                                                                                                          run_tracks
GROUP BY row_num
                  , energy_min
, energy_max
, danceability_min
, danceability_max
FROM
                                                                                                                              -- cte to show couch to 5k schedule, in practice number of rows and
-- time_for_5k increments will be costomized to user preferences
, run_schedule
AS
                  workouts
                            workout_type = 'running'
                                                                                                                                          CONCAT('Week', ROW NUMBER() OVER()) week num
, 60 - (ROW_NUMBER() OVER() - 1) * 5 time_for_5k
FROM
          -- cte to pull in all tracks matching the above parameters
                                                                                                                                         run_tracks
           AS
                                                                                                                                 -- creating playlists based on user schedule SELECT
                             ROW_NUMBER() OVER() row_num
                                                                                                                               SELECT

week num
, time for 5k
, GROUP_CONCAT(name) track_list
, MAX(duration_min) playlist_length

FROM
                            , track_id
, track_guid
                            , artist
, duration_ms/1000/60 duration_min
                                                                                                                                run_schedule
LEFT JOIN
                                                                                                                                playlist_duration
                   INNER JOIN
                            run_params
                            tracks.tempo > run_params.tempo_min
AND tracks.tempo <= run_params.tempo_max
AND tracks.energy > run_params.energy_min
AND tracks.energy <= run_params.energy_max
AND tracks.danceability > run_params.danceability_min
AND tracks.danceability <= run_params.danceability_max
                                                                                                                                          run_schedule.time_for_5k > playlist_duration.duration_min
                                                                                                                                           duration_min <= time_for_5k
                                                                                                                               duration_min <= time

GROUP BY

week_num

, time_for_5k

ORDER BY

week_num

, duration_min_desc
                             tracks.disliked track = 0
```

Data in view:

week_num	time_for_5k	track_list	playlist_length
Week 1	60	Solglasögon,Krakkalakkarapp,THANXX,Classical Gas - Live At The Royal Festival Hall, London/1	59.36226667
Week 2	55	Classical Gas - Live At The Royal Festival Hall, London/1977, Fue Por Mi, Chali Aayee, Magkombo,	53.04026667
Week 3	50	Fue Por Mi, Krakkalakkarapp, Classical Gas - Live At The Royal Festival Hall, London/1977, Wir tick	49.51160001
Week 4	45	Classical Gas - Live At The Royal Festival Hall, London/1977, Krakkalakkarapp, Wir ticken, c¶š ã,	43.37200001
Week 5	40	Fue Por Mi, Krakkalakkarapp, VÃ 'o das Ãguias, Erinnerungen - Live in Berlin 2000, Noonday Under	39.41133334
Week 6	35	Magkombo, Ay Dios, Classical Gas - Live At The Royal Festival Hall, London/1977, Noonday Under	32.11243334



View 3:

This is a view that provides a list of all the tracks of user's favorite artists that are not listened to or saved in the playlist before.

```
130 •
        DROP VIEW IF EXISTS new_track_suggestions;
131 •
        CREATE VIEW new_track_suggestions
132
        AS
133
        SELECT track, artist
     from(SELECT c.name track, a.name artist, b.track_id
134
135
             FROM artists a
                  INNER JOIN track_artists b ON a.artist_id=b.track_id
136
                  INNER JOIN tracks c ON b.track_id=c.track_id
137
138
             WHERE c.track_id NOT IN(SELECT track_id FROM playlist_tracks)
139
             AND date_last_used IS NULL AND disliked_track=0 AND liked_artist=1)t;
```

