# TangoTwo’s Database

TangoTwo will collect various company data regarding their employees, departments, and company locations. This includes individual employee information such as their full name and email, their department, and their company location. TangoTwo will also collect product data regarding their merchandise and tickets, and Dota 2 data regarding tournaments, players, positions, teams, heroes, matches, and series. Ultimately, TangoTwo themselves will own the database, but the database is still shared between both of its locations, Seattle, Washington, and Stockholm, Sweden. The general database management is outsourced to a third-party company that specializes in database management and maintenance. However, the Statistics department manages updating the Dota 2 side of the database. Overall, these two entities, the third-party and the Statistics department, are the only ones that directly accesses the database. Other departments at TangoTwo use developed interfaces to request and handle information from the database, and the general public views prefetched information on TangoTwo’s website.

## Human Questions from TangoTwo and SQL Query Answers:

1. Who are all of our employees?
   * SELECT **\***  
     FROM **EMPLOYEE**
2. What employees are a part of our Statistics department from our Stockholm, Sweden location?
   * SELECT **\***  
     FROM **EMPLOYEE**  
     WHERE **DEP\_ID** = ‘5’ and **LOC\_ID** = ‘2’;
3. How many employees are a part of our Marketing department from our Seattle, Washington location?
   * SELECT COUNT(**EMP\_ID**)  
     FROM **EMPLOYEE**  
     WHERE **DEP\_ID** = ‘1’ and **LOC\_ID** = ‘1’;
4. How many employees do we have in total?
   * SELECT COUNT(**EMP\_ID**)  
     FROM **EMPLOYEE**;
5. What merchandise do we sell that is less than $10?
   * SELECT **\***  
     FROM **MERCHANDISE**  
     WHERE **MER\_COST** < 10;
6. How many posters in total do we have left?
   * SELECT SUM(**MER\_QUANTITY**)  
     FROM **MERCHANDISE**  
     WHERE **MER\_TYPE** = ‘Poster’
7. How many unique T-shirts of ours are autographed?
   * SELECT **\***  
     FROM **MERCHANDISE**  
     WHERE **MER\_TYPE** = ‘T-Shirt’ and **MER\_AUTOGRAPH** = ‘TRUE’;
8. What Dota 2 players are from Team EG?
   * SELECT **\***  
     FROM **DOTA\_PLAYER**  
     WHERE **DOTA\_TEAM\_ID** = ‘3’;
9. What Dota 2 players are all Position 2 players?
   * SELECT **\***  
     FROM **DOTA\_PLAYER**  
     WHERE **DOTA\_POS\_ID** = ‘2’;
10. Who is the captain of Team Liquid?
    * SELECT **\***  
      FROM **DOTA\_PLAYER**  
      WHERE **DOTA\_TEAM\_ID** = ‘7’ and **DOTA\_PLAYER\_CAPTAIN** = ‘TRUE’;
11. Who are all of the coaches?
    * SELECT **\***  
      FROM **DOTA\_PLAYER**  
      WHERE **DOTA\_PLAYER \_COACH** = ‘TRUE’;
12. What Dota 2 players have earned more than $2m?
    * SELECT **\***  
      FROM **DOTA\_PLAYER**  
      WHERE **DOTA\_PLAYER \_EARN** > ‘2000000’;
13. What are the total tournament earnings of all Dota 2 players from Team OG?
    * SELECT SUM(**DOTA\_PLAYER\_EARN**)  
      FROM **DOTA\_PLAYER**  
      WHERE **DOTA\_TEAM\_ID** = ‘1’
14. What are the total tournament earnings of all Dota 2 teams?
    * SELECT SUM(**DOTA\_TEAM\_EARN**)  
      FROM **DOTA\_TEAM**
15. What are all of the Agility Dota 2 heroes?
    * SELECT **\***  
      FROM **DOTA\_HERO**  
      WHERE **DOTA\_HERO\_ATTR** = ‘Agility’;
16. What are all of the Dota 2 matches that Team OG has won?
    * SELECT **\***  
      FROM **DOTA\_MATCH**  
      WHERE **DOTA\_TEAM\_ID** = ‘1’;
17. What are all of the Dota 2 series that were Na`Vi vs Alliance?
    * SELECT **DOTA\_SERIES.\***  
      FROM **DOTA\_COMPETING\_TEAM**JOIN **DOTA\_SERIES**  
      ON **DOTA\_COMPETING\_TEAM.DOTA\_SERIES\_ID** = **DOTA\_SERIES.DOTA\_SERIES\_ID**  
      WHERE **DOTA\_TEAM\_ID** = ‘2’ or **DOTA\_TEAM\_ID** = ‘6’  
      GROUP BY **DOTA\_SERIES\_ID**  
      HAVING COUNT(**\***) = 2;

# Partner’s Business Needs (Nick Malmberg’s)

Nick’s business is Spotify Raido. It essentially focuses on a service that allows listeners to select, or randomly select, multiple genres and artists for an assortment of songs that match the given parameters. This would make it easier to listen to preferred songs without having to preselect individual songs, one-by-one, before each time you want to make a playlist. To accomplish this efficiently within the company’s database, Spotify Radio will have to create an effective relational network between its genres, artists, and songs in the database. If done correctly, the application service would be able to make quick queries for songs matching the parameters. If done poorly, too many selected genres and/or artists could bog queries search times to an unacceptable delay. Along with this, keeping track of previously created playlists would be beneficial to those who do not want to input the same genres and artists every single time. This would also save time on querying again using the same, previous parameters.

## Human Questions from me and SQL Query Answers:

1. What are the available genres on Spotify Radio?
   * SELECT **\***  
     FROM **GENRE**
2. What Kanye West (ARTIST\_ID: 2) songs are available on Spotify?
   * SELECT **\***  
     FROM **SONG**  
     WHERE **ARTIST\_ID** = ‘2’;
3. How many custom playlists contain a country song (GENRE\_ID: 7)?
   * SELECT COUNT(**DISTINCT PLAYLIST\_ID**)  
     FROM **ADDED\_SONG**  
     JOIN **SONG**  
     ON **SONG.SONG\_ID** = **ADDED\_SONG.SONG\_ID**  
     WHERE **GENRE\_ID** = ‘7’;