**Name**: Carson Magee

**Database**: Music.db

REQUIREMENTS:

* Answers 10 different questions about the data X
  + Questions must be specific to the data X
* Answers are supported by screenshot X
* Queries must select only the relevant columns X
  + No SELECT \* statements X
* Use MIN or MAX in at least two different queries X
* Use WHERE in at least five different  queries X
* Use AND or OR in at least one query X
* Use COUNT in at least one query X
* Use AVG or SUM in at least two different queries X
* Use LIKE to filter data in at least three different queries X

Question 1

1. What artists have the letters ‘y’ and ‘j’ and ‘x’ in their name? (Presents the use of the LIKE and WHERE and AND statements)
2. DJ X-Change featuring DJ Joey A, Xzibit featuring Jayo Felony and Method Man, Maurice Chevalier …, Wyclef Jean….
3. SELECT "artist.name"

FROM music

WHERE "artist.name" LIKE('%y%') AND "artist.name" LIKE('%j%') AND "artist.name" LIKE('%x%');

1. Text

   Description automatically generated

Question 2

1. Which artists is hottest? What is their rating? (Presents the use of the MAX statement)
2. Lextrical, 0,.0
3. SELECT "artist.name" , min("artist.hotttnesss")

FROM music;

1. Graphical user interface, text

   Description automatically generated

Question 3

1. Which artist is least hot? What is their rating? (Presents the use of the MIN statement)
2. Kanye West, 1.08250
3. SELECT "artist.name" , max("artist.hotttnesss")

FROM music;

1. Graphical user interface, application, website

   Description automatically generated

Question 4

1. How many songs are in the key of G (5.0)? (Presents the use of the COUNT and LIKE and WHERE statements)
2. 795 songs in G
3. SELECT "song.key", COUNT("song.key") AS "Songs in G"

FROM music

WHERE "song.key" LIKE('%5.0%');

1. Graphical user interface, application

   Description automatically generated

Question 5

1. What is the average song tempo? (Presents the use of the AVG statement)
2. 122.900913210
3. SELECT AVG("song.tempo") AS "Average Song Tempo"

FROM music;

1. Graphical user interface, text, application

   Description automatically generated

Question 6

1. How long is every song combined in minutes? (Presents the use of the SUM statement)
2. 40103.67 minutes
3. SELECT "song.name", SUM("song.duration")/60 AS "Total length"

FROM music;

1. Graphical user interface, text

   Description automatically generated

Question 7

1. What song has -25.924 db loudness? (Use song id -- song name does not work in this database) (Presents the use of LIKE and WHERE statements)
2. Song ID: SOFCDUZ12AB01861C6
3. SELECT "song.id", "song.loudness"

FROM music

WHERE "song.loudness" LIKE "%-25.924%";

1. Graphical user interface, text

   Description automatically generated

Question 8

1. What songs are by Casual? (Presents the use of the LIKE and WHERE statements)
2. "Casual" "SOMZWCG12A8C13C480"

"Casual" "SOQLGFP12A58A7800E"

"Casual" "SODKPKO12A58A79DF7"

"Casual" "SOZWTCR12A58A7BA31"

"Casual" "SOXPJJT12AB01843F5"

"Casual" "SOCTKZS12A58A7C5E6"

"Casual" "SOAPMKZ12A58A764B7"

"Casual" "SOIYNOF12AB0182141"

1. SELECT "artist.name", "song.id"

FROM music

WHERE "artist.name" LIKE "%casual%";

1. Graphical user interface, text

   Description automatically generated

Question 9

1. Which song has a tempo with “60” in it? (Presents the use of the LIKE and WHERE statements)
2. 89.607
3. SELECT "song.id", "song.tempo"

FROM music

WHERE "song.tempo" LIKE "%60%";

1. Graphical user interface, text, application

   Description automatically generated

Question 10

1. What song has a song.id and an artist.id with ‘WX’? (Presents the use of the LIKE and WHERE statements)
2. Song ID: SOMXWXQ12AC3DFA002

Artist ID: ARWXHRS1241B9C7A1E

1. SELECT "song.id", "artist.id"

FROM music

WHERE "song.id" LIKE "%WX%" AND "artist.id" LIKE "%WX%";

1. Graphical user interface, text

   Description automatically generated