

## HOMEWORK WEEK 7

In this section we will differentiate the different musical genres of each album of Christina Aguilera, the popularity of each and after that, we will make a ranking based on the genre and popularity. Christina Aguilera's albums are:

- Christina Aguilera (Expanded Edition)
- Mi Reflejo
- My Kind Of Christmas
- Just Be Free
- Stripped
- Back To Basics
- Keeps Gettin Better: A Decade of Hits
- Bionic (Deluxe Version)
- Lotus (Deluxe Version)
- Liberation

And the popularity of each is this:

## Popularity of Christina Aguilera's albums

<b>album_uri</b> ( <i>chr</i> )	<b>album_popularity</b> ( <i>int</i> )
1 Christina Aguilera (Expanded Edition)	72
2 Mi Reflejo	64
3 My kind of Christmas	69
4 Just be free	31
5 Stripped	75
6 Back to basics	68
7 Keeps Gettin Better: A Decade of Hits	59
8 Bionic (Deluxe Version)	60
9 Lotus (Deluxe Version)	3
10 Liberation	67

The popularity of each album is rated between 0 and 100, with 100 being the most popular. So the ranking of Christina Aguilera's most popular albums would be:

1. Stripped
2. Christina Aguilera (Expanded Edition)
3. My kind of Christmas
4. Back to basics
5. Liberation
6. Mi Reflejo
7. Bionic (Deluxe Edition)
8. Keeps gettin better: A Decade of Hits
9. Just Be Free
10. Lotus (Deluxe Version)

On the other hand, albums belong to these musical genres:

<b>Album</b>	<b>Genre</b>
1 Christina Aguilera (Expanded Edition)	Pop/ Dance Pop/ Teen Pop/ R&B
2 Mi Reflejo	R&B/ Soul/ Latin Pop
3 My kind of Christmas	Pop
4 Just be free	Dance pop/ Teen Pop
5 Stripped	Pop/ R&B/ Hip-Hop
6 Back to basics	Pop/ R&B/ Soul/ Blues/ Jazz/ Swing/ Doo wop
7 Keeps Gettin Better: A Decade of Hits	Pop/ Dance pop/ R&B/ Pop Rock/ Hip-hop
8 Bionic (Deluxe Version)	Pop/ Electropop/ Futurepop/ R&B
9 Lotus (Deluxe Version)	Pop/ Dance pop/ Electronic/ Pop rock
10 Liberation	R&B/ Hip Hop/ Soul/ Pop Rock/ Trap

So if we create a table like the previous one substituting the name of the album by the name of the musical genre to which they belong would be so:

1. Pop/ R&B/ Hip-Hop

2. Pop/ Dance Pop/ Teen Pop/ R&B
3. Pop
4. Pop/ R&B/ Soul/ Blues/ Jazz/ Swing/ Doo wop
5. R&B/ Hip Hop/ Soul/ Pop Rock/ Trap
6. R&B/ Soul/ Latin Pop
7. Pop/ Electropop/ Futurepop/ R&B
8. Pop/ Dance pop/ R&B/ Pop Rock/ Hip-hop
9. Dance pop/ Teen Pop
10. Pop/ Dance pop/ Electronic/ Pop rock

Finally, these data will help us later on along the work to be able to group albums according to the musical genre to which they belong and therefore, to answer the main question discovering with which musical genres Christina Aguilera's albums have triumphed the most.