M22CS4.301: Data and Applications
Phase 4

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Some minor changes made

- Rather than storing derived attributes, we made views corresponding them

- We changed some minor datatypes. For example, we changed the attribute `creation_date`'s datatype in the relation `Bands` from type `date` to `year`

Database Information

The database contains 28 songs, 9 albums, 9 creator and 15 users initially.

Analytics

General Report

Since the amount of data available is not significant, the general report is not based for any particular year but takes in account all the years.


```
+-----------------+--------------------+-------------------+------------------------+----------------------+----------------------+
| Most Popular Song | Most Popular Artist | Most Popular Genre | Most Listened Album    | Most Prestigious Artist | Most Prestigious Band |
+-----------------+--------------------+-------------------+------------------------+----------------------+----------------------+
| Under The Floor   | Lana Del Rey        | soft rock          | Norman Fucking Rockwell | Lana Del Rey            | The Beatles           |
+-----------------+--------------------+-------------------+------------------------+----------------------+----------------------+
```

Figure 1: General Report uptill so far

User Report

For user analysis, we considered the user `razumnik`. To do analysis for some other user, a single change to `WHERE Name = ""` will have to be changed with desire user.
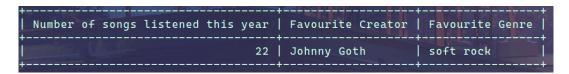


```
+-------------------------------+-------------------+-----------------+
| Number of songs listened this year | Favourite Creator | Favourite Genre |
+-------------------------------+-------------------+-----------------+
|                            22 | Johnny Goth        | soft rock        |
+-------------------------------+-------------------+-----------------+
```

Figure 2: User report for `razumnik`

Creator Report

For user analysis, we considered the creator `Lana Del Rey`. To do analysis for some other creator, a single change to `WHERE Name = ""` will have to be changed with desire creator.


```
+-------------------------+------------------------+----------------------------------------+
| Total Number of Streams | Total Number of Songs  | Total Number of different genres covered |
+-------------------------+------------------------+----------------------------------------+
|                      36 |                      6 |                                        4 |
+-------------------------+------------------------+----------------------------------------+
```
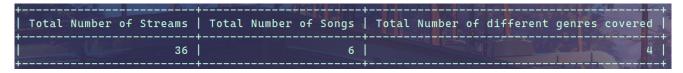
Figure 3: Creator report for `Lana Del Rey`