

Top 100 Music Dashboard



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Data Extraction

CANADA SINGLES TOP 100

COMPILED BY: CANADIAN HOT 100

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CHART

DROP-OUTS

VIDEOS

ARCHIVE

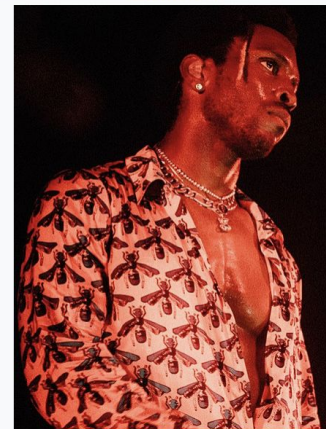
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OK, got it

CHARTLIST

Current	Previous	Title		Peak	Weeks
1.	re-entry	Roses <small>Best Comeback</small> Saint Jhn		1	12
2.	4	Rockstar Dababy and Roddy Ricch		2	7
3.	2	Blinding Lights The Weeknd		1	27
4.	1	Rain On Me Lady GaGa and Ariana Grande		1	2

Saint Jhn



John in May 2018

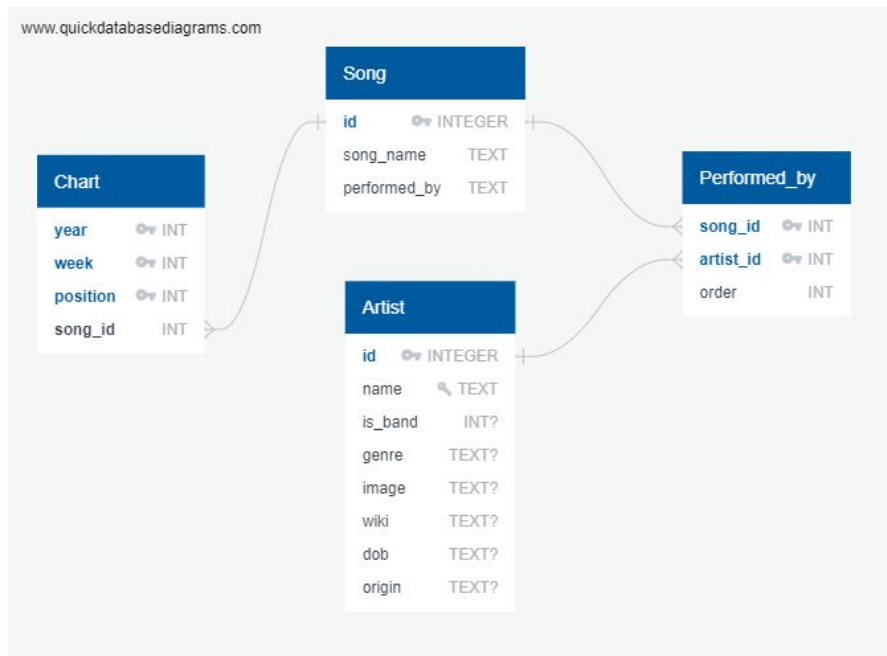
Background information

Birth name	Carlos St. John
Also known as	Ghetto Lenny
Born	August 26, 1986 (age 33) Brooklyn , New York, U.S.
Genres	Hip hop , R&B
Occupation(s)	Singer · songwriter · record producer · rapper
Instruments	Vocals, guitar
Years active	2010–present



Entity Relationship Diagram

- Organize extracted data within a SQL database
- Common requests to the database are saved as views
- 681 weeks starting from March 31, 2007
- 2055 Artists
 - 1690 scraped
 - 365 unscraped (17.76%)
- 6332 Songs





Server

- Multiple API endpoints created for ease of use
 - Depending on information required for visualizations

Song information

- Endpoint: `/api/v1.0/song/<int:song_id>`
- Description:
 - returns information about a song with a given song id
 - also includes an array of performers (see '[Artist Information](#)' endpoint)
- Example: (<http://localhost:8000/api/v1.0/song/1>)

```
{
  "song_name": "Stuck With U",
  "performed_by": "Ariana Grande and Justin Bieber",
  "id": 1,
  "performers": [
    {
      "genre": "Pop",
      "name": "Ariana Grande",
      "wiki": "https://en.wikipedia.org/wiki/Ariana_Grande",
      "origin": "Boca Raton, Florida",
      "image": "https://upload.wikimedia.org/wikipedia/commons/thumb/d/dd/Ariana_Grande_Grammys_Red_Carpet_2020/320px-Ariana_Grande_Grammys_Red_Carpet_2020.jpg",
      "id": 1,
      "is_band": 0,
      "dob": "1993-06-26"
    },
  ],
}
```

Dashboard

See our work in action





Project Requirements

- ✓ Python Flask-powered API
- ✓ HTML/CSS
- ✓ JavaScript
- ✓ SQLite
- ✓ Web scraping + Plotly
- ✓ Chroma.js - color manipulation library (first chart)
- ✓ Way more than 100 records
- ✓ Dropdowns on charts to filter/choose dataset
- ✓ 5 charts on the Dashboard
- ✓ Presentation