Data_Cleaning_Process.docx

Title: Data Cleaning Process for Hip Hop Streaming Analysis

1. Introduction

Data cleaning is crucial for ensuring the accuracy and reliability of the analysis. This
document outlines the steps taken to clean the datasets used in this project.

2. Initial Data Inspection

- Loaded the Hip_Hop_Streaming.csv file into Excel to inspect the data structure.
- Identified columns: Playlist Name, Album Playlist, Views, Estimated Revenue, etc.

3. Cleaning Steps

Removing Duplicates: Checked for and removed duplicate entries.

excel

Copy code

Data > Remove Duplicates

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• Handling Missing Values:

Replaced missing revenue values with 0 using the formula:

excel

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```
=IF(ISBLANK(B2), 0, B2)
```

0

- Separating Revenue for Different Artists:
 - Used filters to isolate revenue entries for specific artists.
- **Standardizing Formats:** Ensured consistent formatting for all entries, particularly for numerical values.
- Extracting Categories:

Used formulas to categorize data:

excel

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```
=IF(A2="Kendrick Lamar", "Kendrick Lamar", IF(A2="J. Cole", "J. Cole", "Other"))
```

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4. Final Review

- Reviewed cleaned data for accuracy and completeness.
- Saved the cleaned dataset as Processed_Hip_Hop_Streaming.csv for analysis.

5. Tools Used

- Microsoft Excel for initial cleaning.
- Python and Pandas for further processing and analysis.