

Clusterización de Playlist

**Juan Fernando Ramírez –
20666**

Oscar Méndez - 20402





Spotify



Algoritmos



Variables



PCA



TSNE



Spectral Embedding



Local Linear Embedding



Power BI

Spotify

API de Spotify



Spotify for Developers

Permite recuperar metadatos de contenido, obtener recomendaciones, crear y gestionar listas de reproducción, o controlar la reproducción, etc.



1086 canciones



Usuario: Oscar

Algoritmos



Sportify



Algoritmos



Variables



PCA



TSNE



Spectral Embedding



Local Linear Embedding



Power BI



K-Means



**Spectral
Embedding**



**Hierarchical
Clustering**



Reducción de Dimensionalidad



PCA, t-SNE, Spectral Embedding y Locally Linear Embedding

Variables



Sportify



Algoritmos



Variables



PCA



TSNE



Spectral Embedding



Local Linear Embedding



Power BI

1 uri	Código de la canción	dBs de la canción	loudness 10
2 title	Nombre de la canción	Modalidad, Alegre o melancólica	mode 11
3 album	Nombre del álbum	¿La canción es en vivo?	liveness 12
4 artist	Artista de la canción	¿Que tan sentimental es?	valence 13
5 spanish	¿La canción es en español?	Emocionalidad, Positiva o negativa	duration 14

Variables



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PCA



TSNE



Spectral Embedding



Local Linear Embedding



Power BI

6 year	Año de lanzamiento	Nivel de sonidos acústicos	acousticness 15
7 tempo	Rapidez de la canción	Cantidad de sonidos instrumentales	instrumental 16
8 energy	Nivel de intensidad	Cantidad de sonidos vocales	speechiness 17
9 danceability	Nivel de bailabilidad	Que tan popular es la canción	popularity 18

Artists



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Variables



PCA



TSNE



Spectral Embedding



Local Linear Embedding



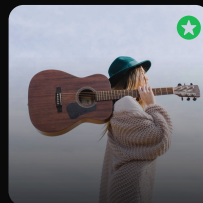
Power BI



Popular Artists

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna

Lorem Ipsum



2020

Lorem ipsum

dolor sit amet, consectetur adipiscing elit, sed do eiusmod



2021

Lorem ipsum

dolor sit amet, consectetur adipiscing elit, sed do eiusmod



2022

Lorem ipsum

dolor sit amet, consectetur adipiscing elit, sed do eiusmod

PCA



Spotify



Algoritmos



Variables



PCA



TSNE



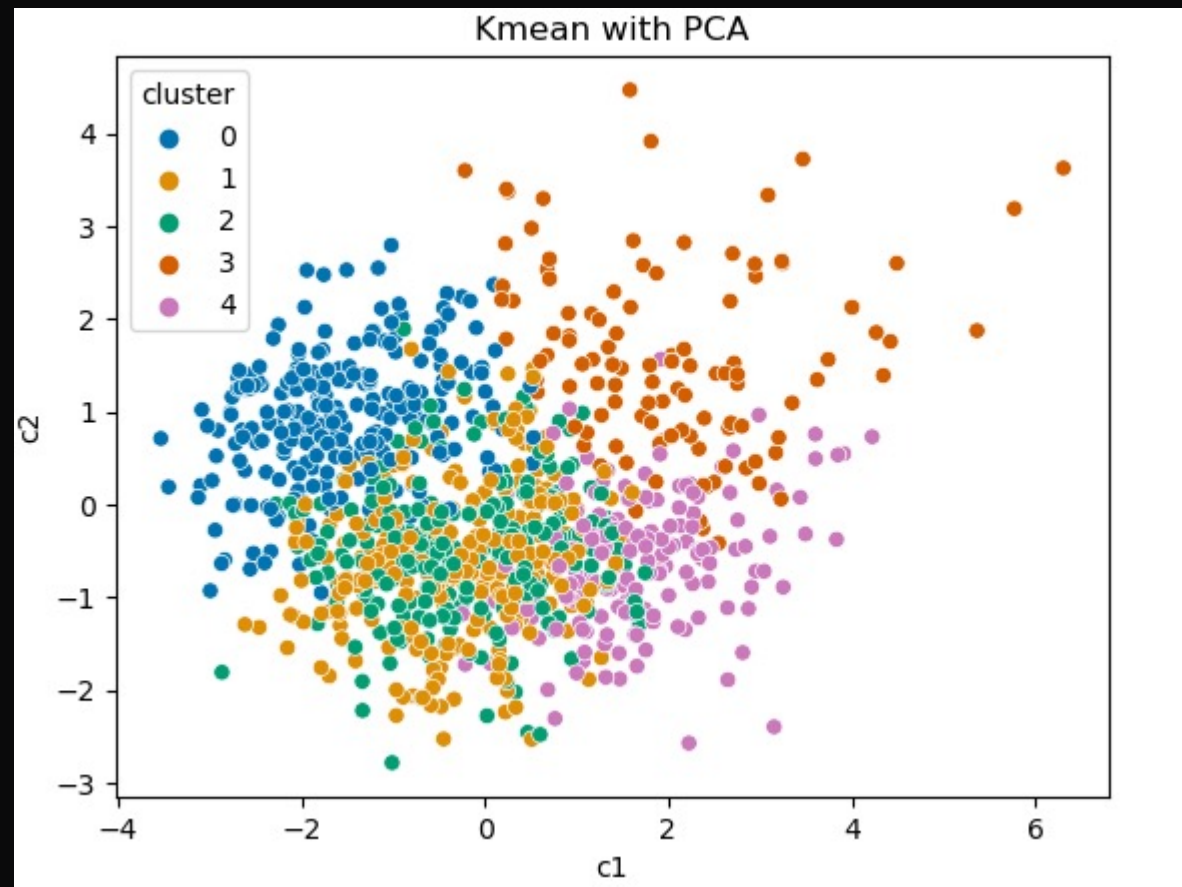
Spectral Embedding



Local Linear Embedding



Power BI



PCA: Componentes Kmeans



Spotify



Algoritmos



Variables



PCA



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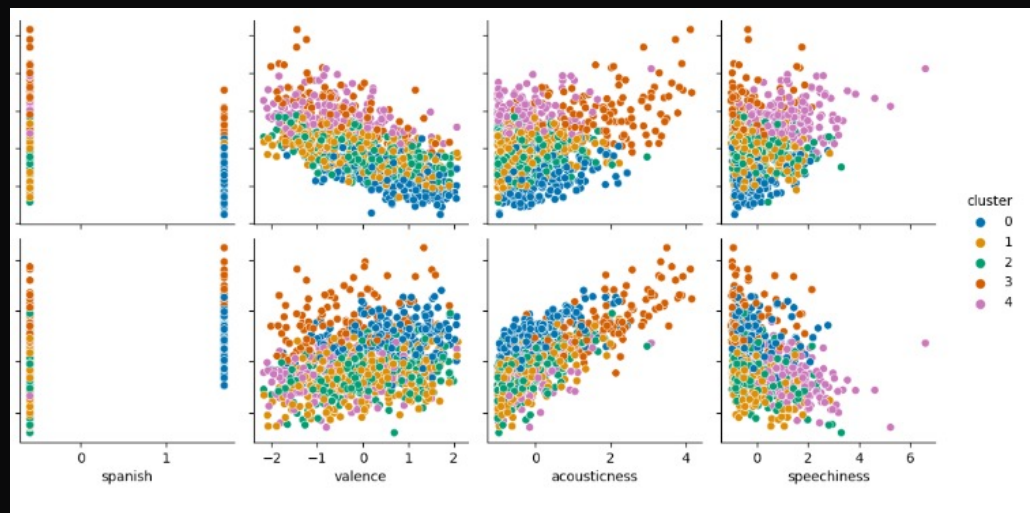
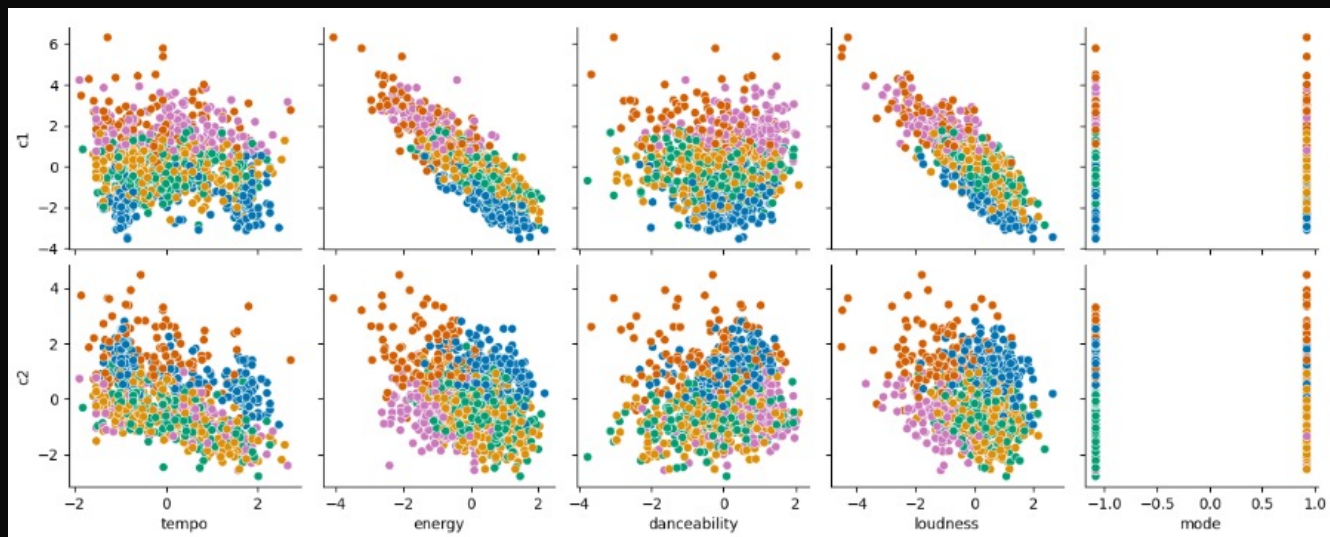
Spectral Embedding



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Variables



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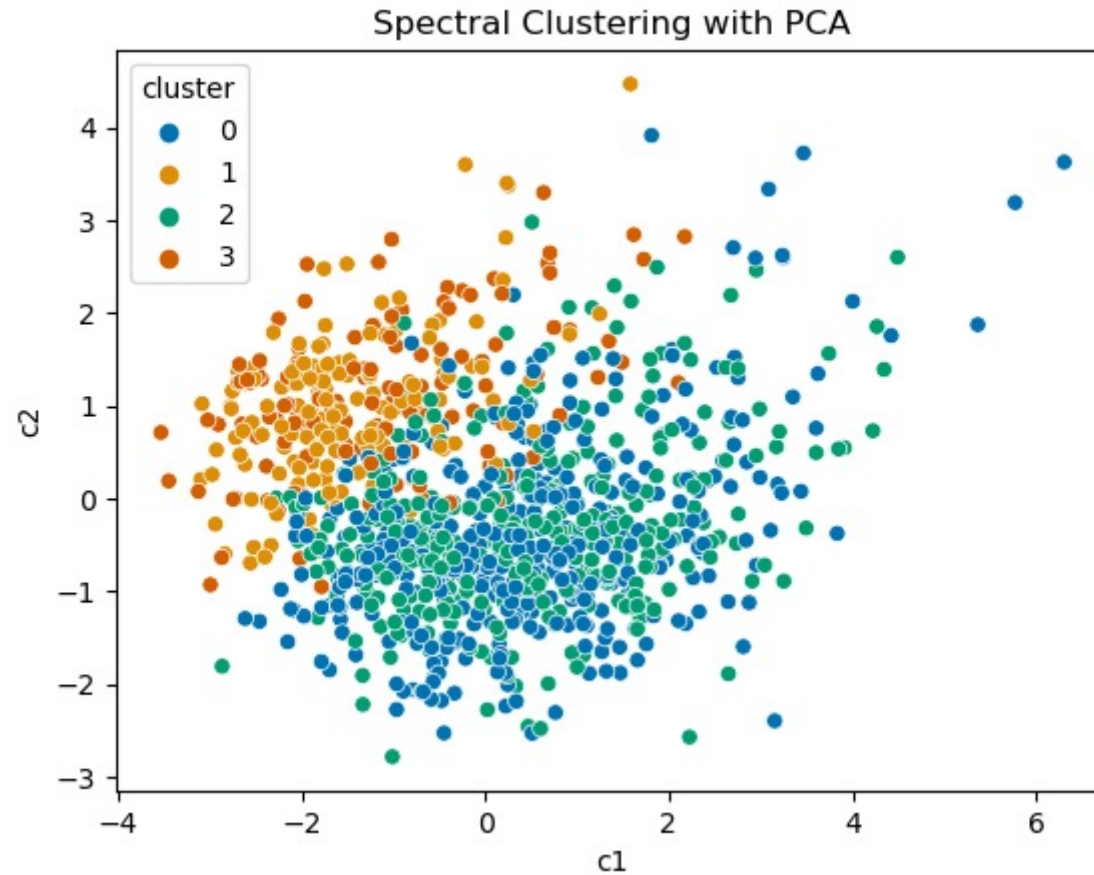
Spectral Embedding



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PCA: Componentes Spectral CI



Spotify



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Variables



PCA



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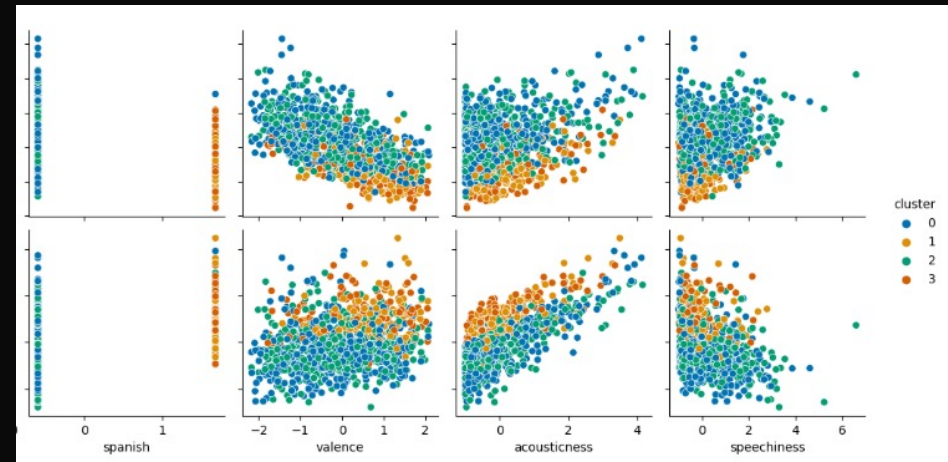
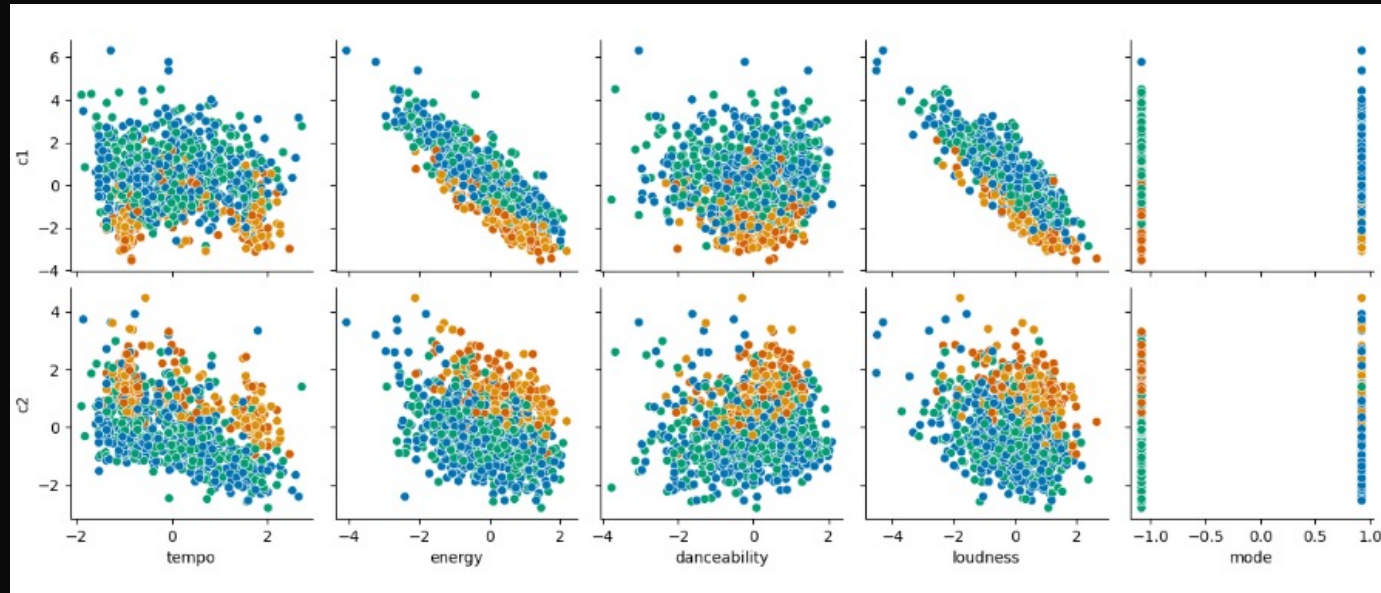
Spectral Embedding



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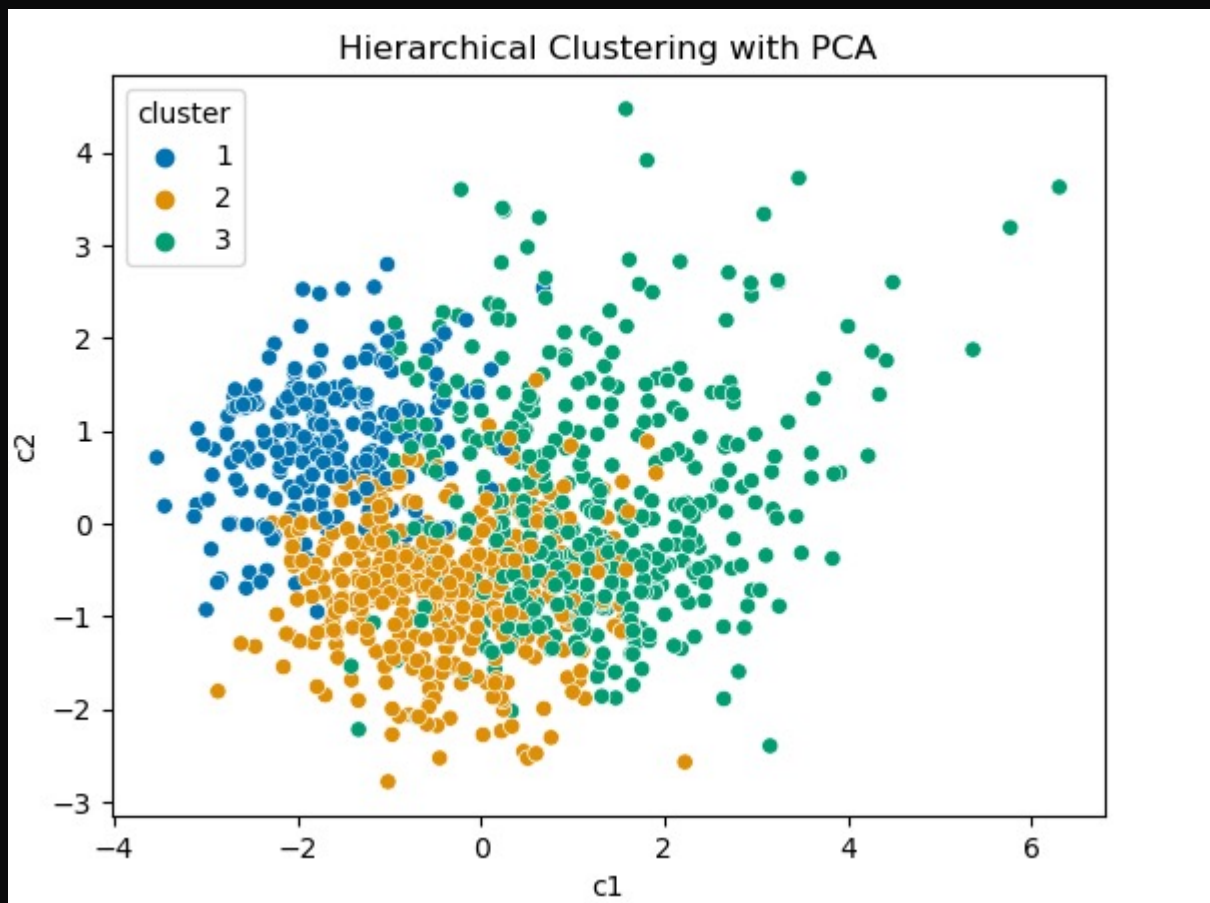
Spectral Embedding



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PCA: Componentes Hierarchical



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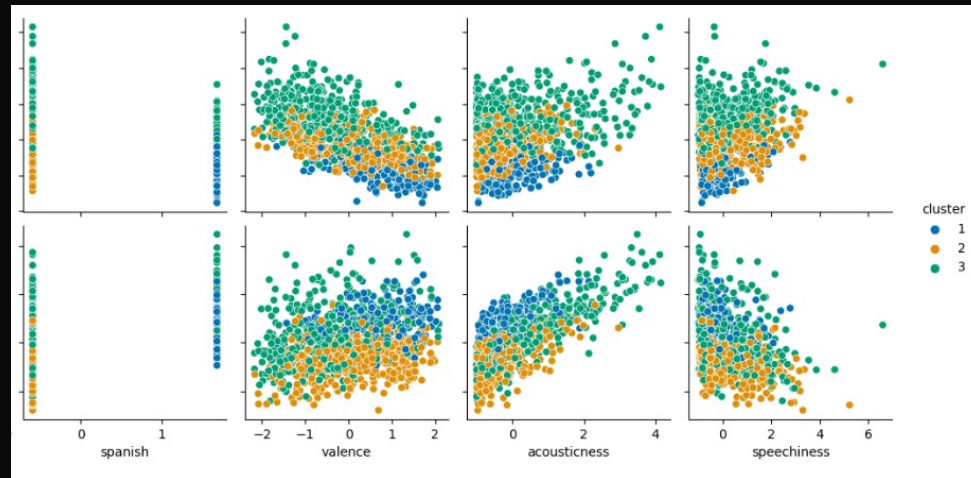
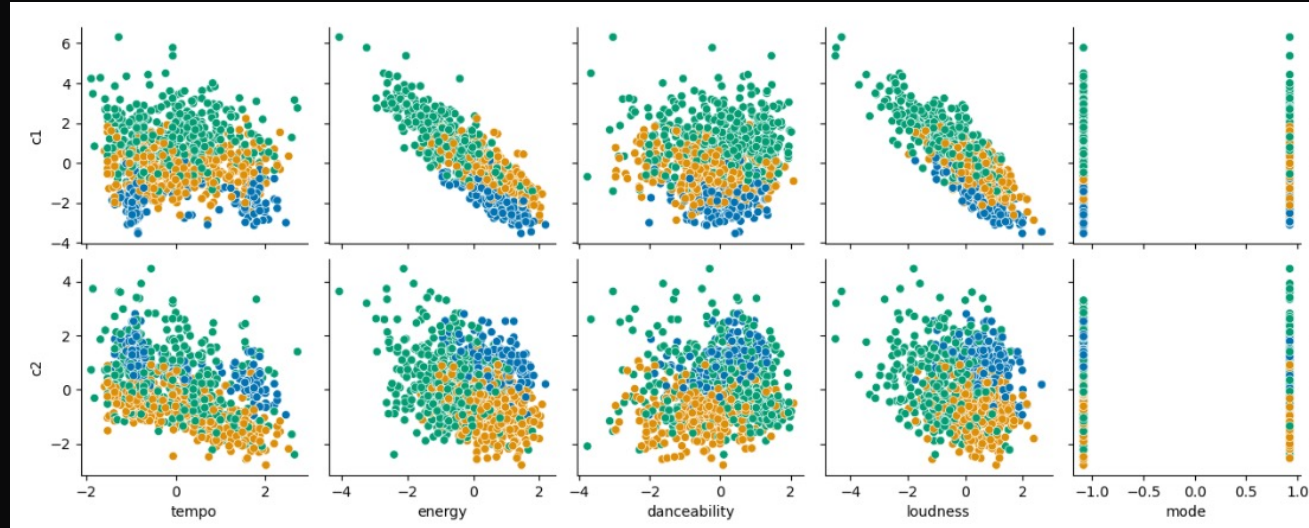
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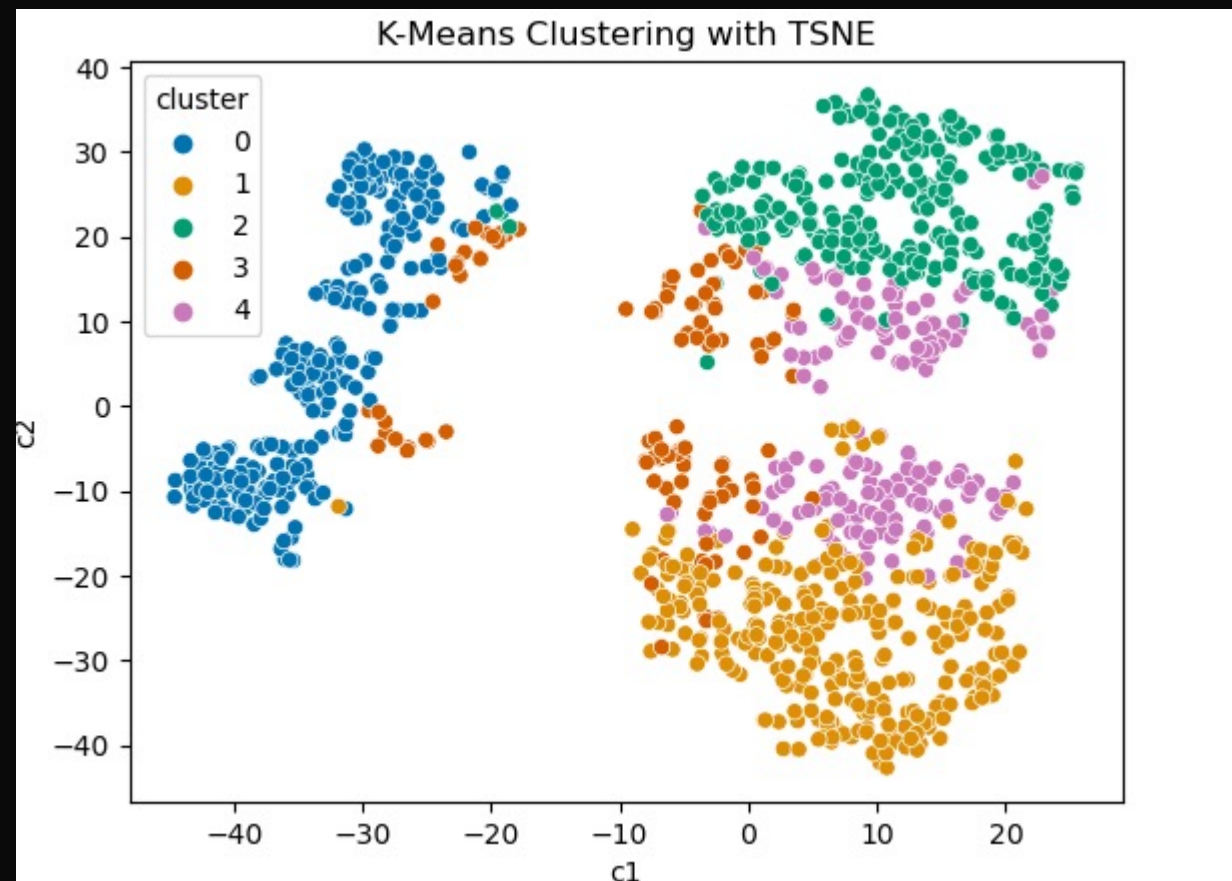
Spectral Embedding



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TSNE: Componentes Kmeans



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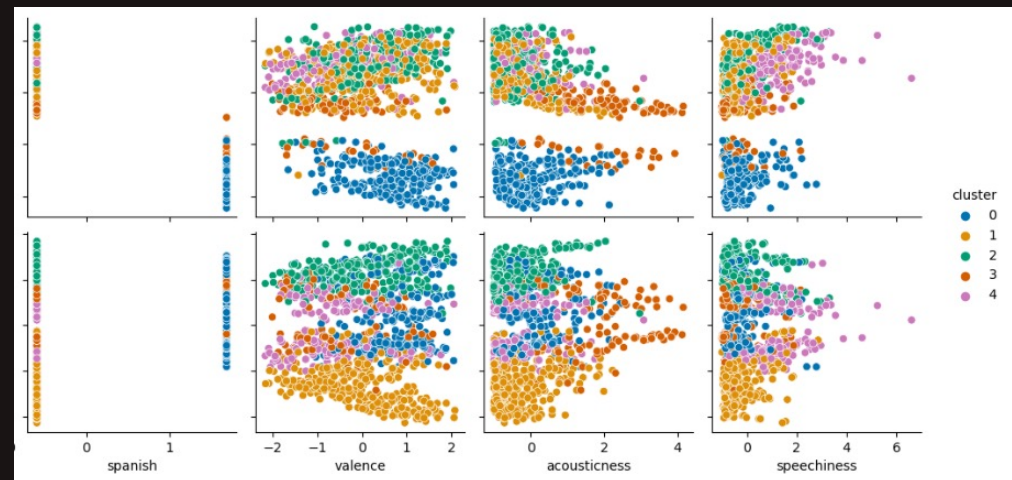
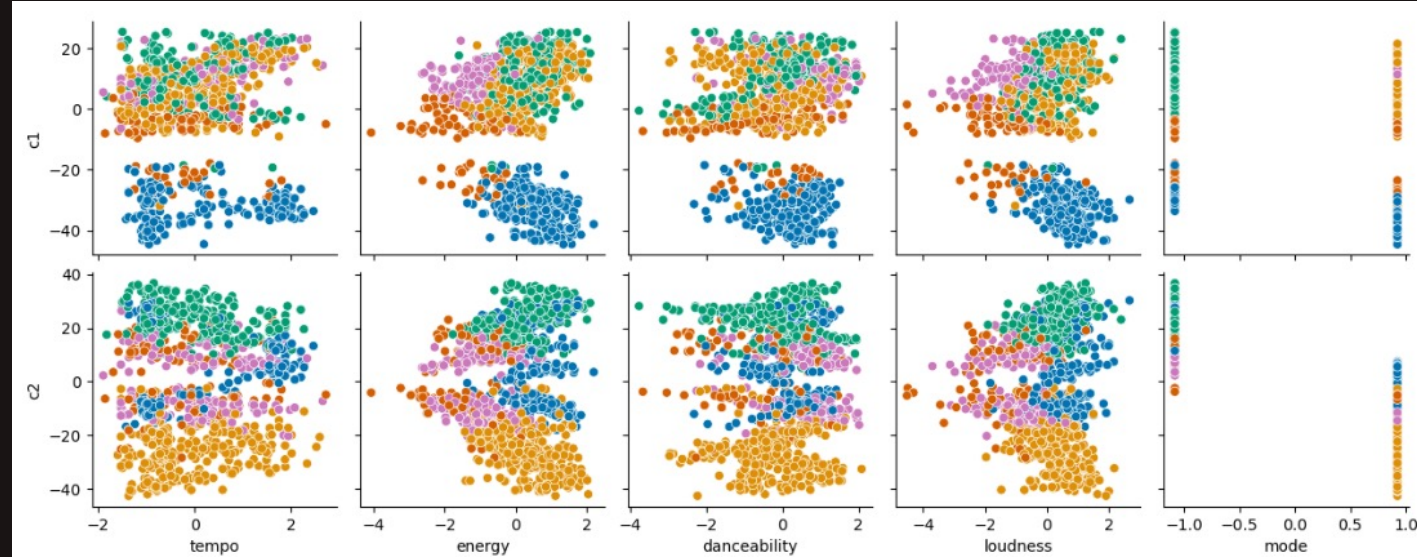
Spectral Embedding



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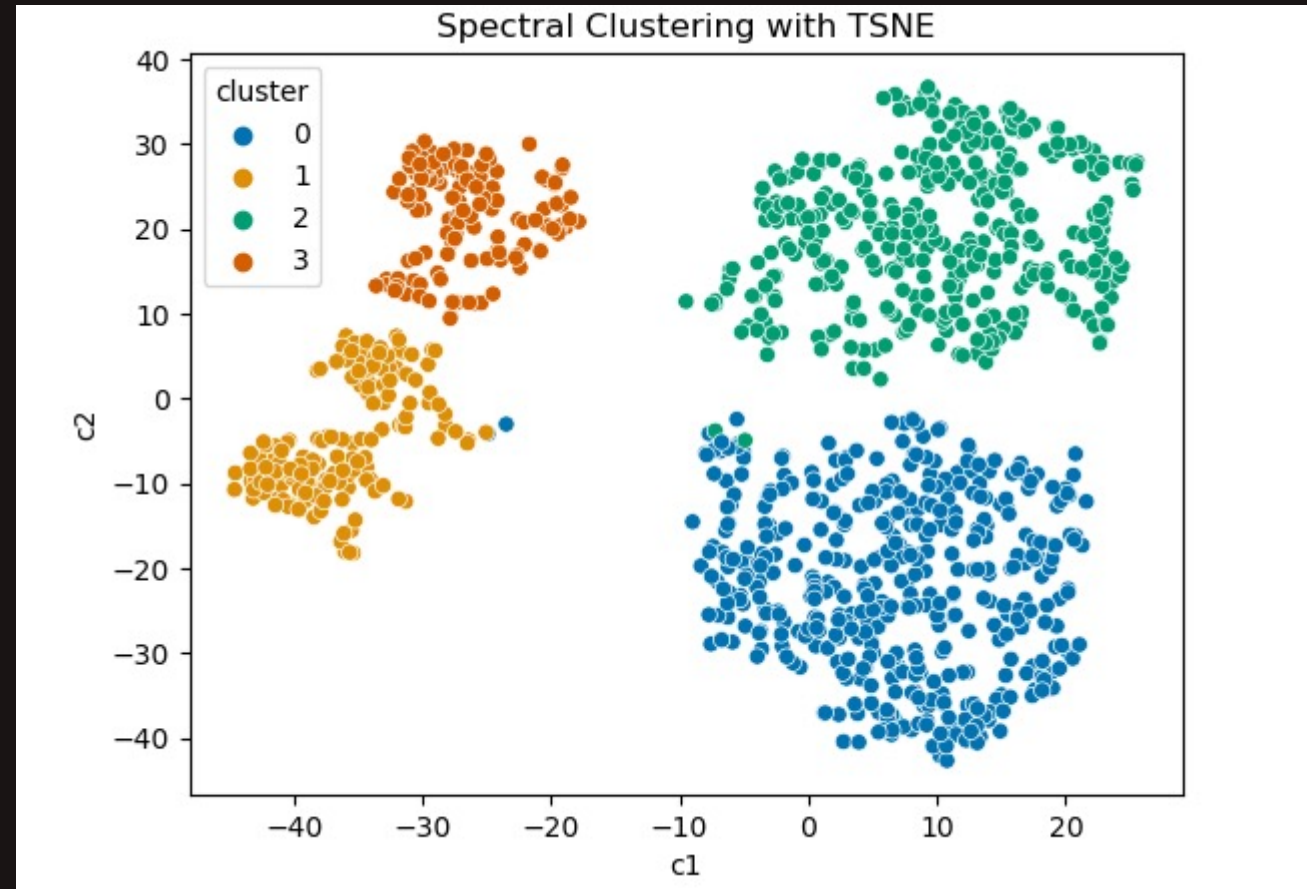
Spectral Embedding



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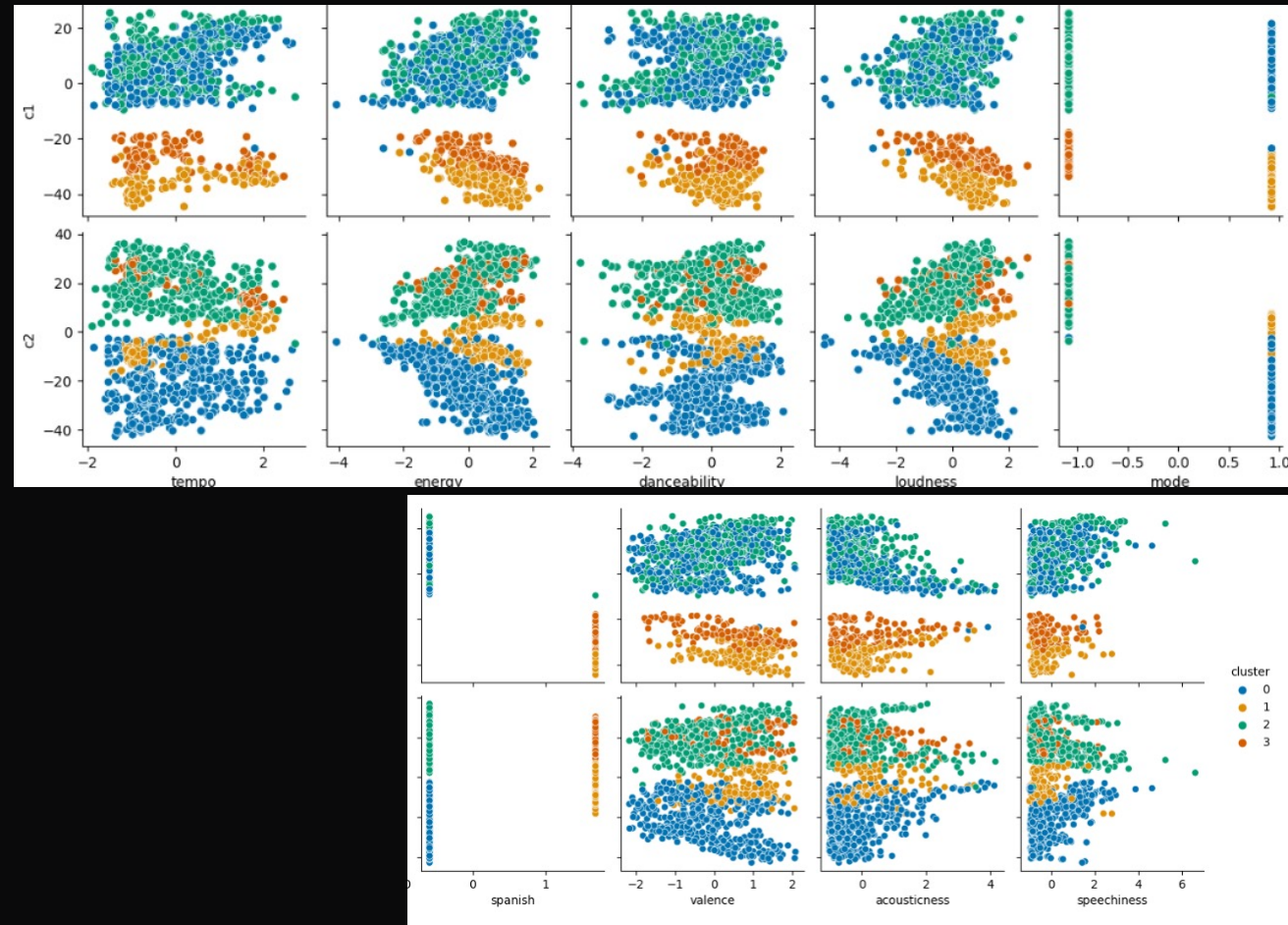
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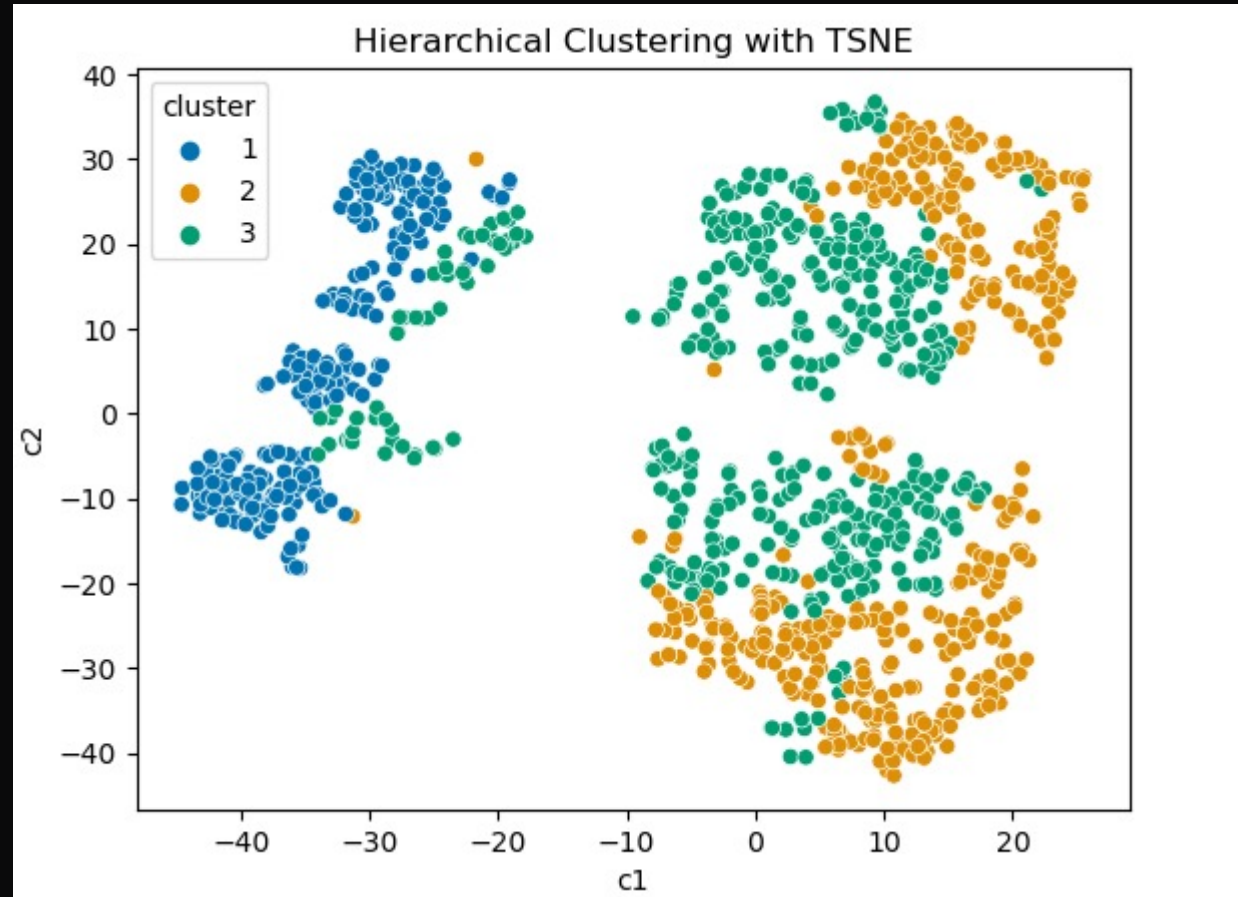
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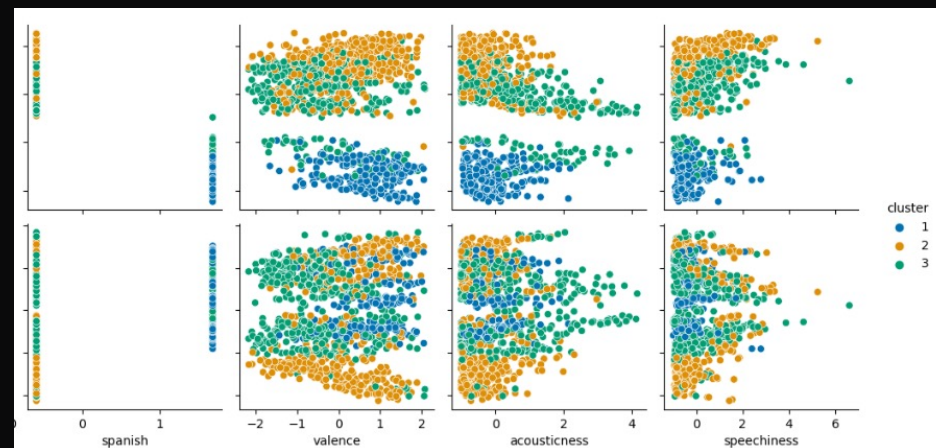
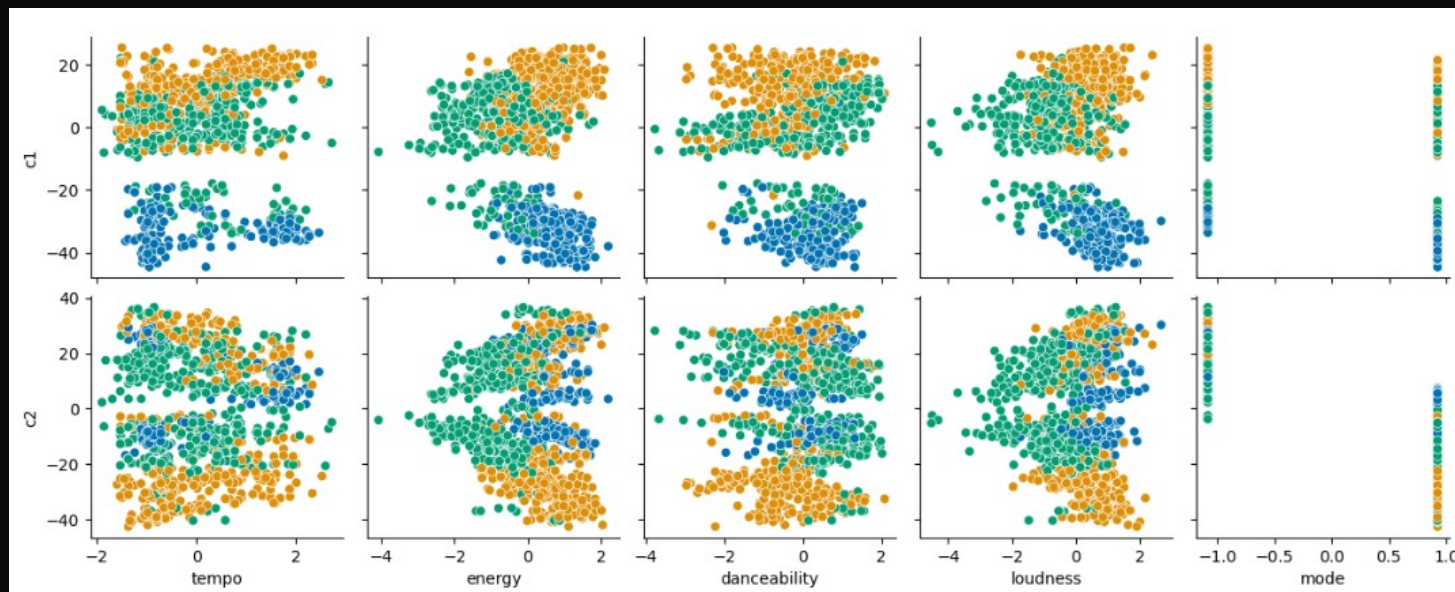
Spectral Embedding



Local Linear Embedding



Power BI



Spectral Embedding



Spotify



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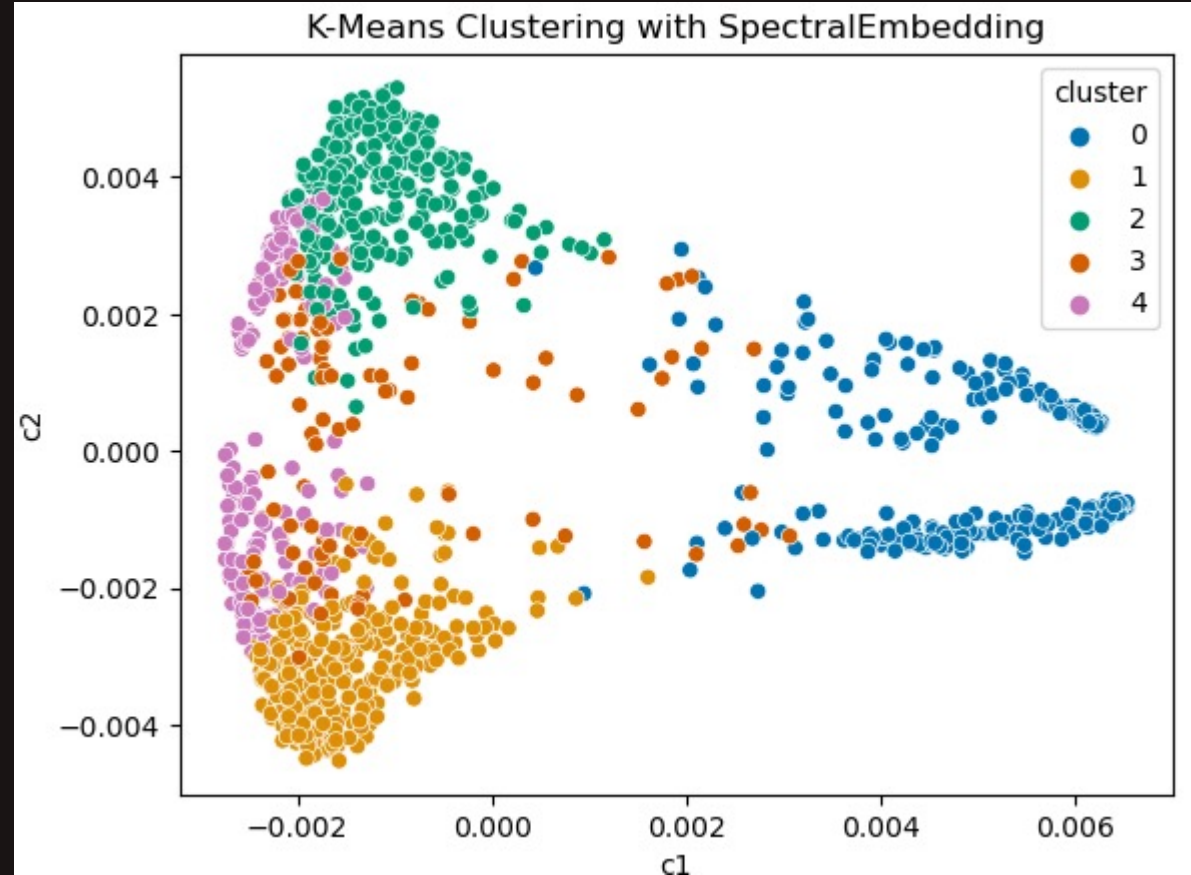
Spectral Embedding



Local Linear Embedding



Power BI



SE: Componentes Kmeans



Spotify



Algoritmos



Variables



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TSNE



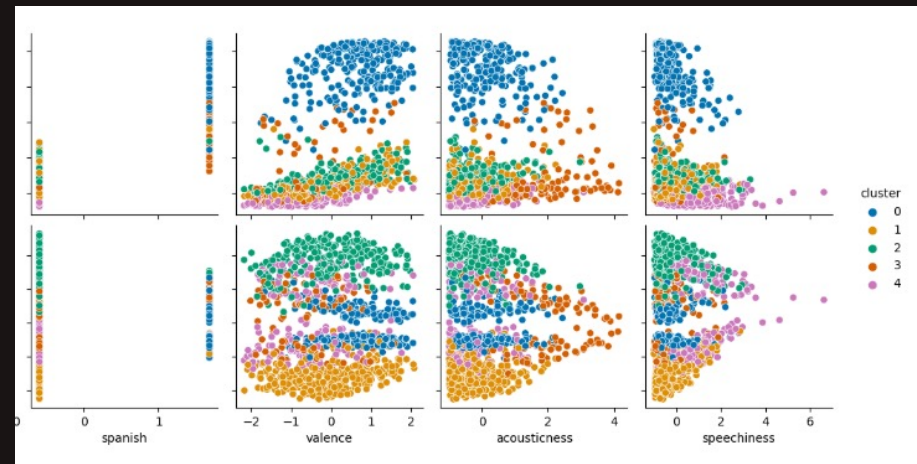
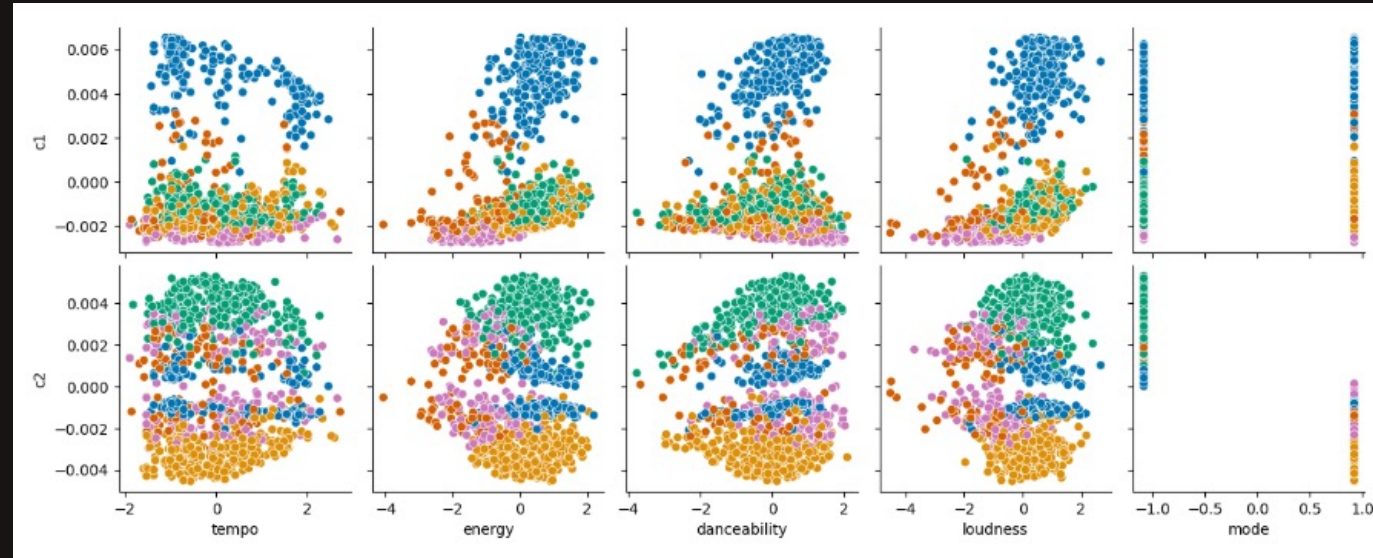
Spectral Embedding



Local Linear Embedding



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Spectral Embedding



Spotify



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TSNE



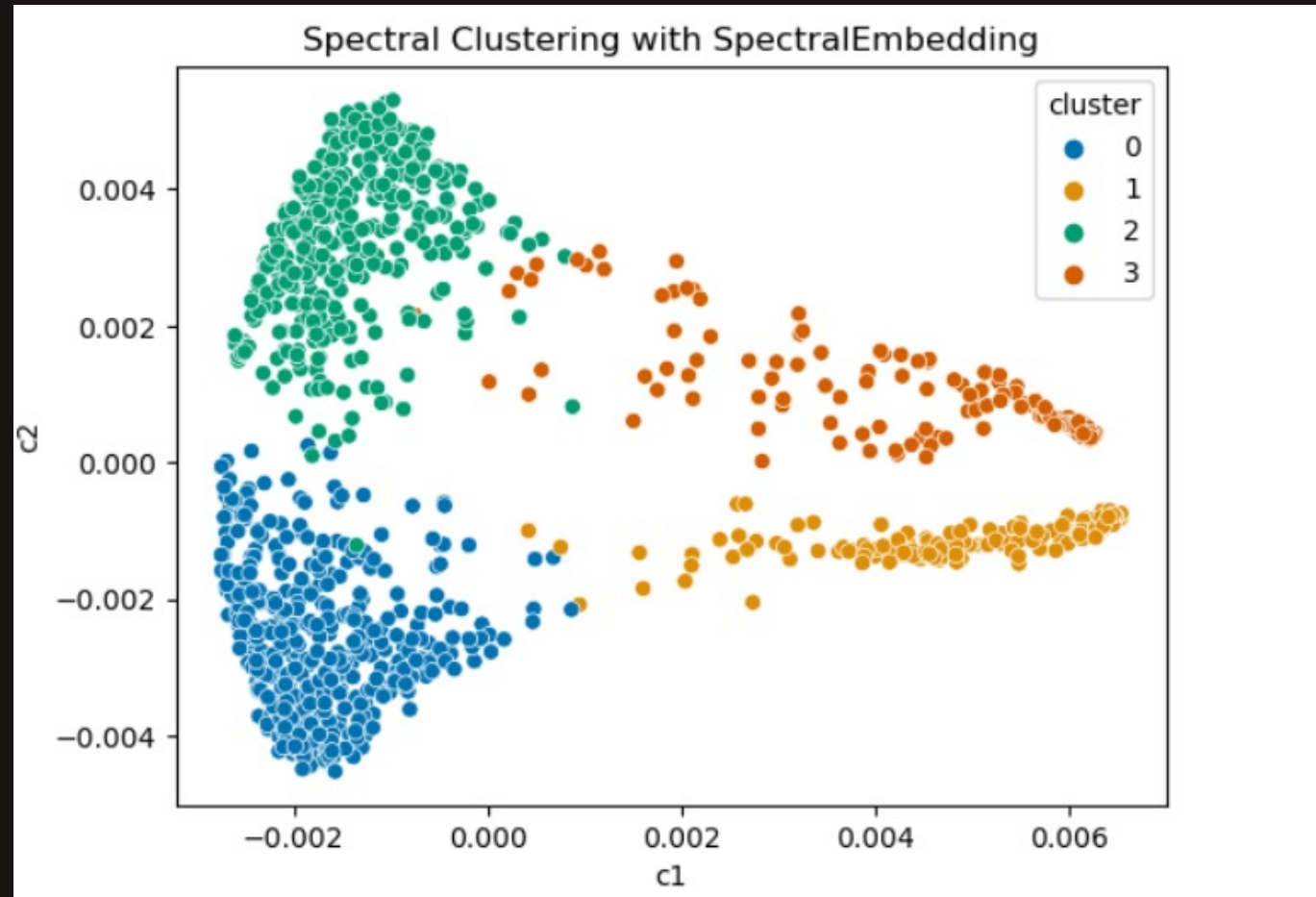
Spectral Embedding



Local Linear Embedding



Power BI



SE: Componentes SC



Spotify



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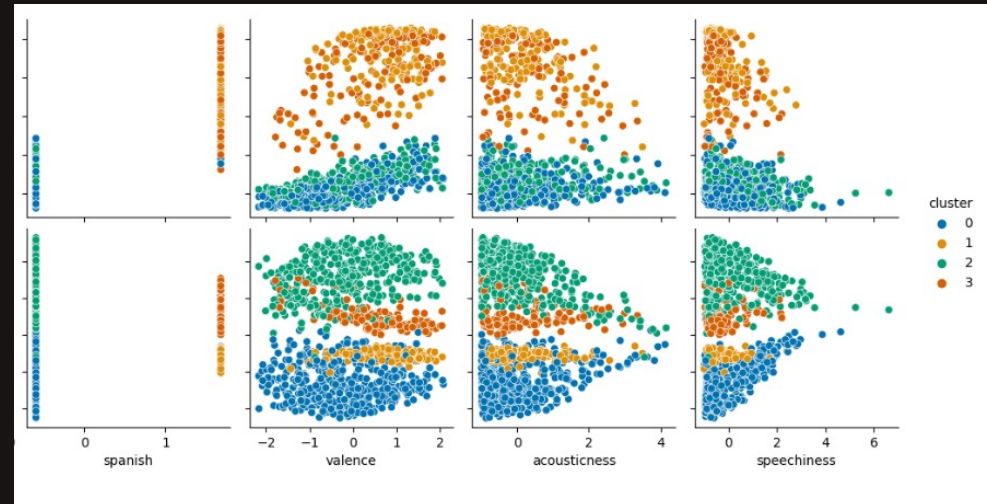
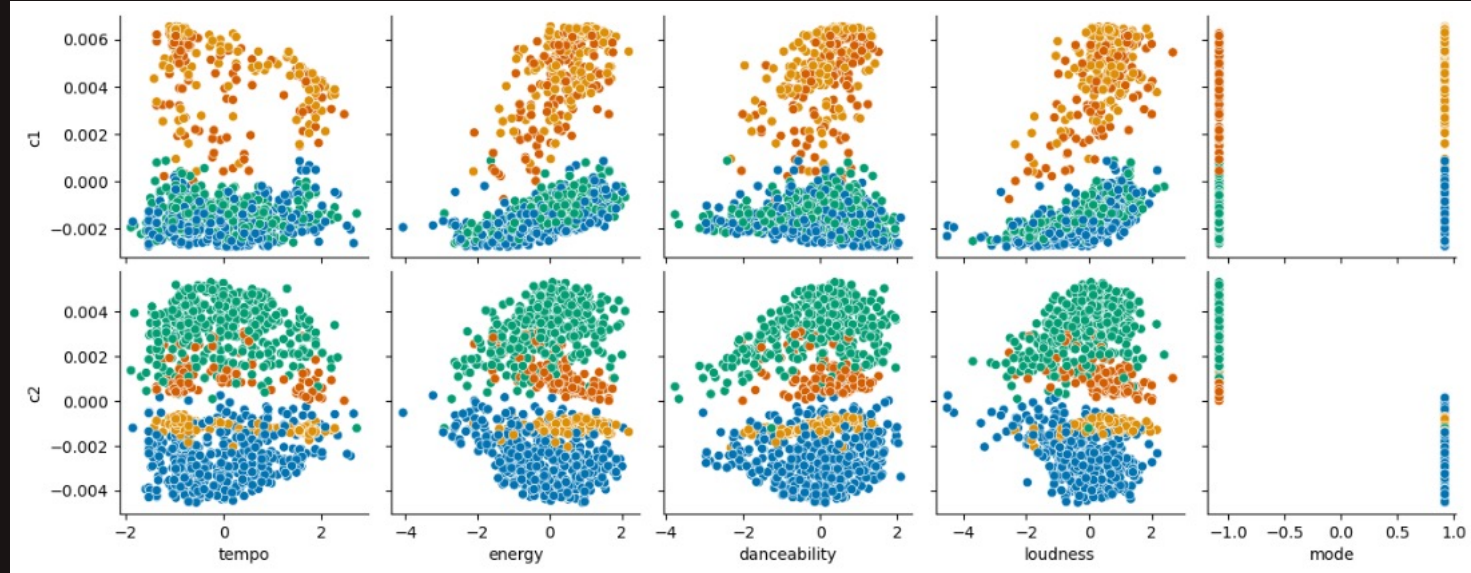
Spectral Embedding



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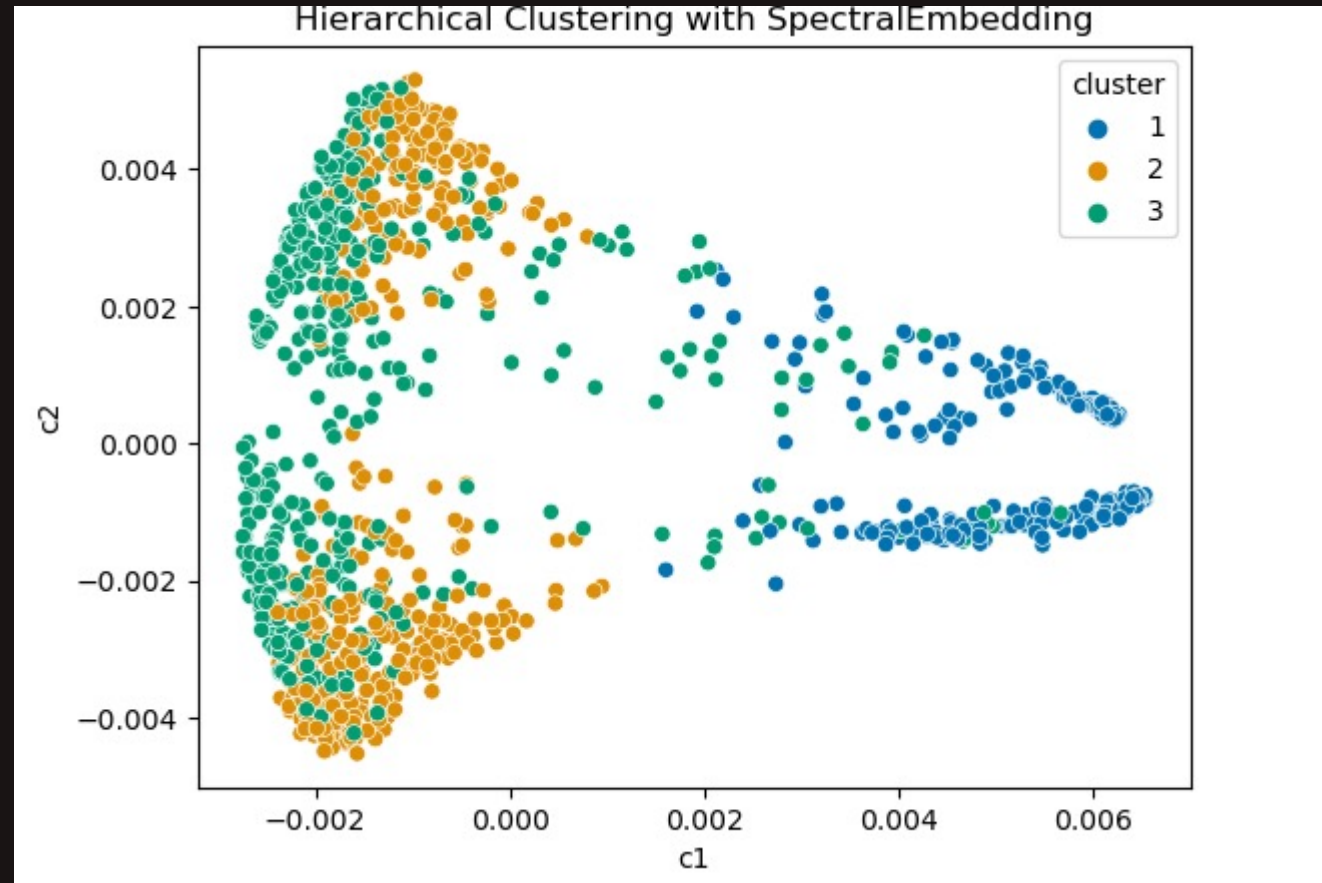
Spectral Embedding



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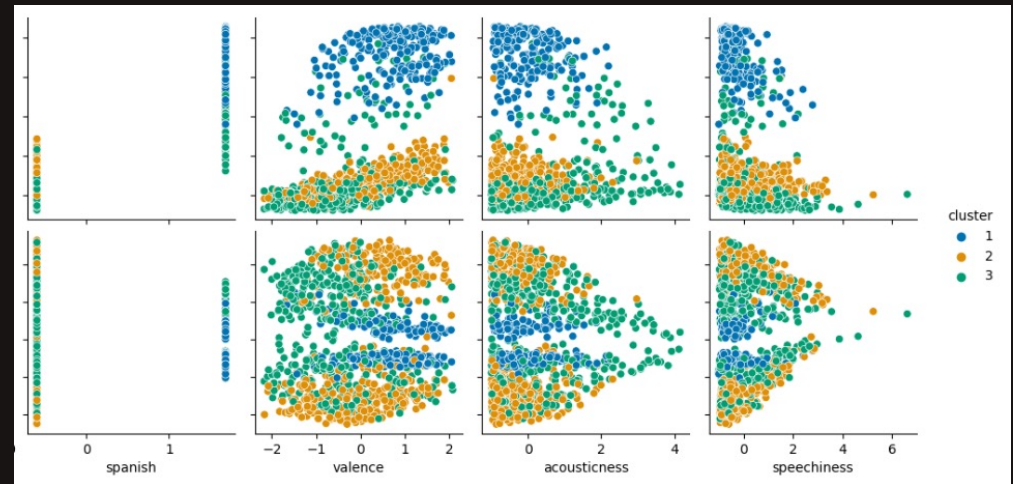
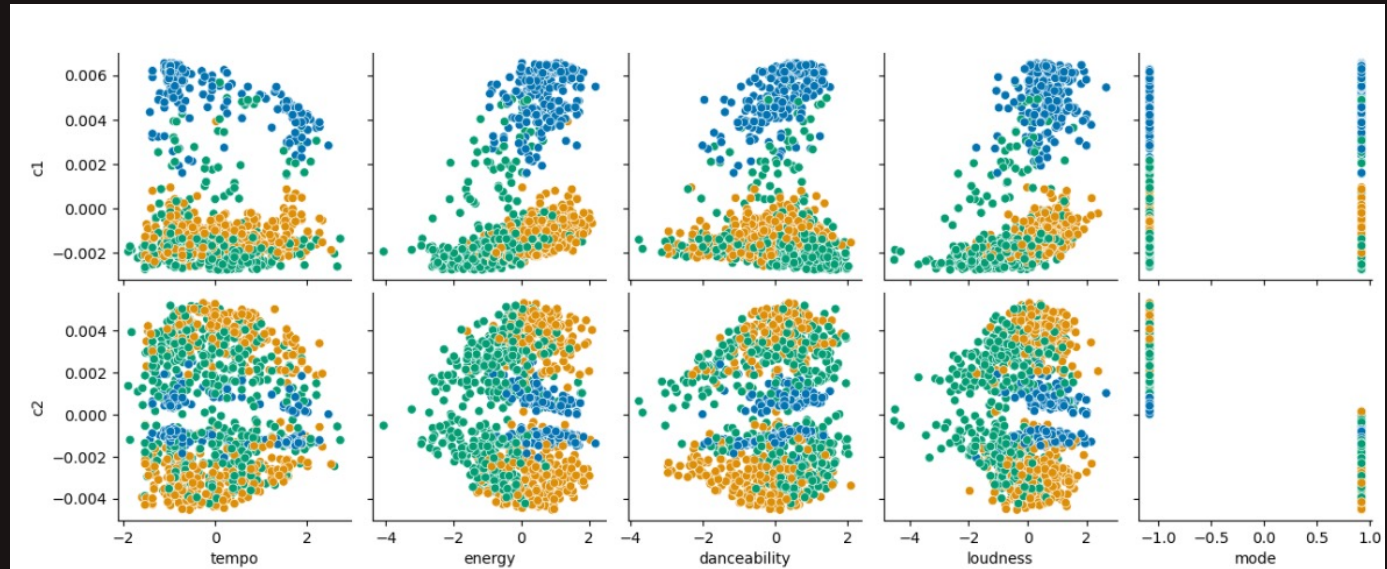
Spectral Embedding



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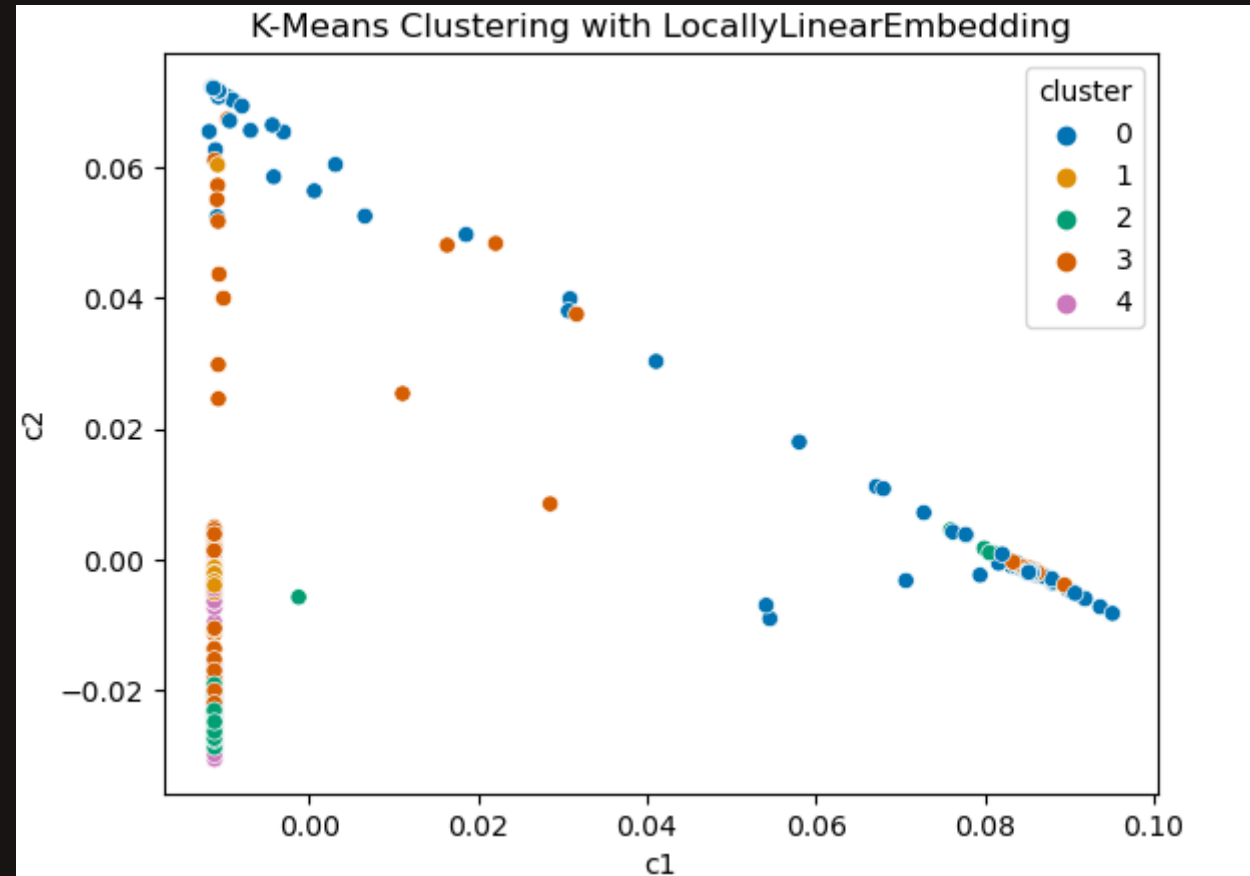
Spectral Embedding



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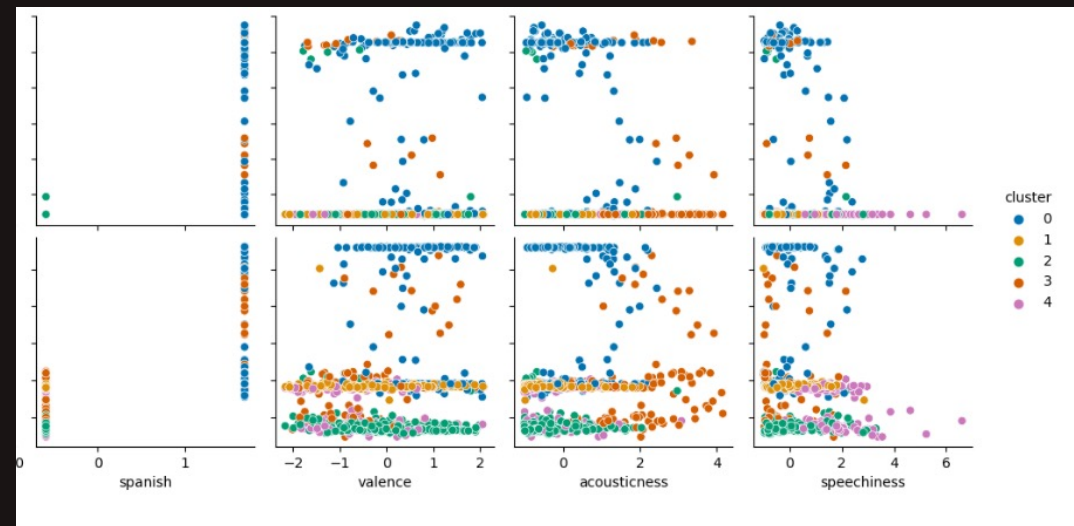
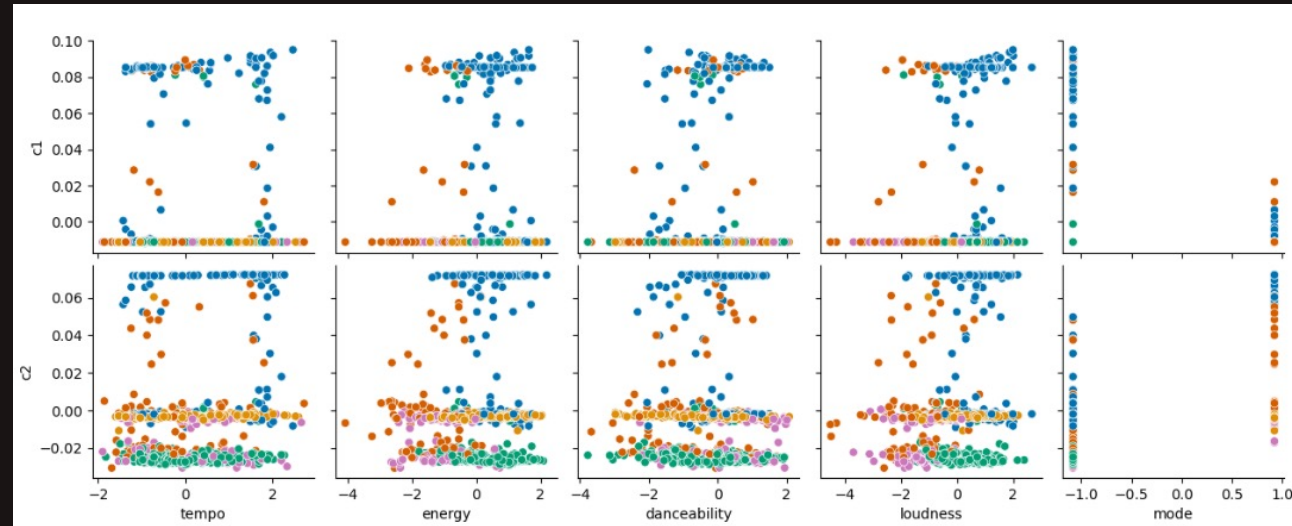
Spectral Embedding



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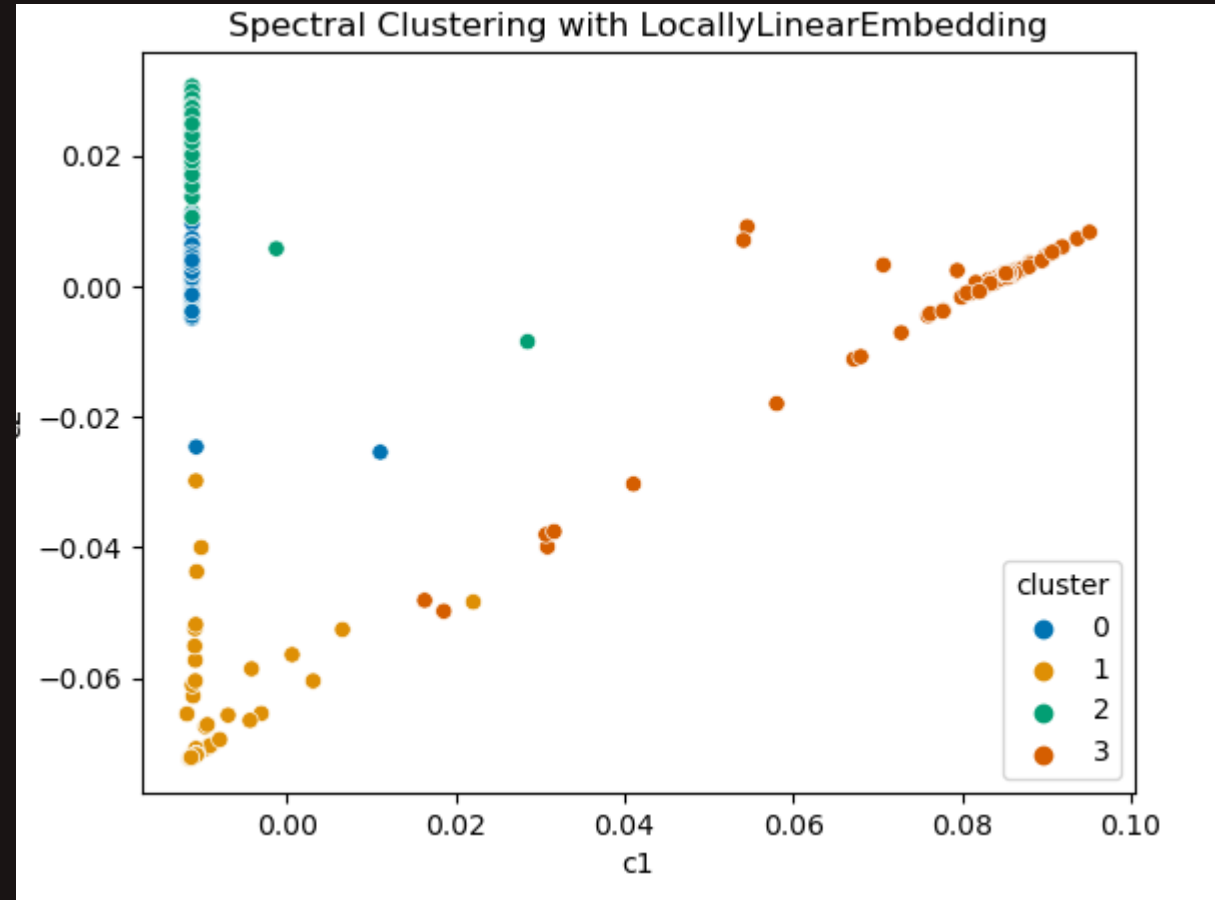
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Local Linear Embedding



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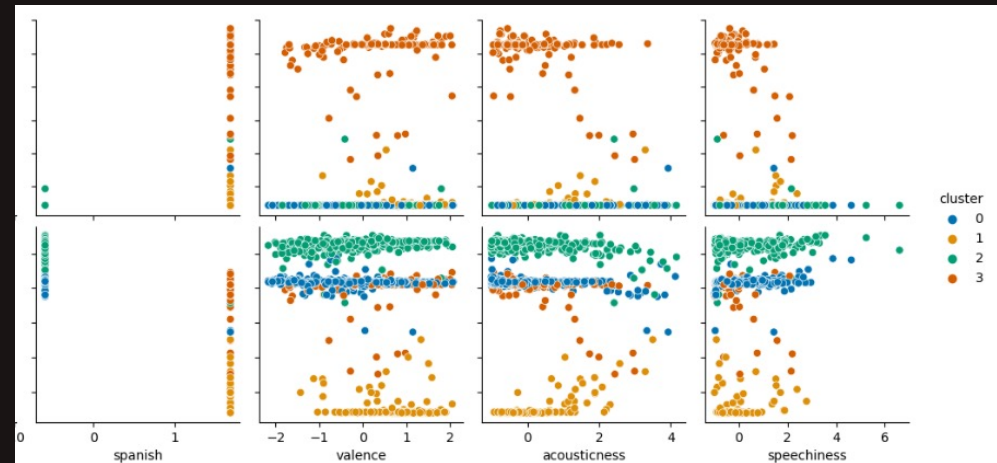
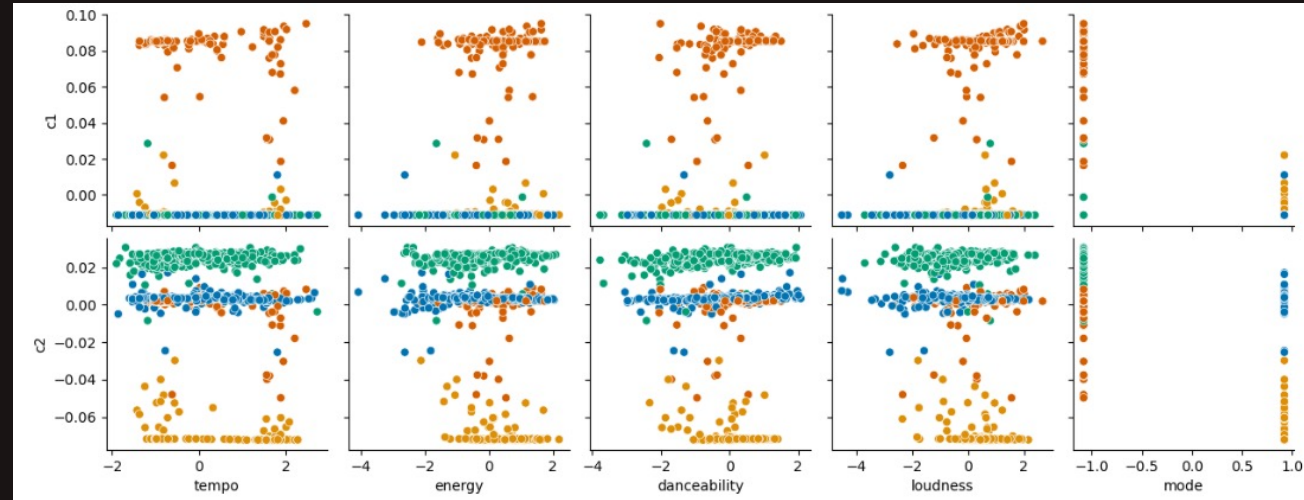
Spectral Embedding



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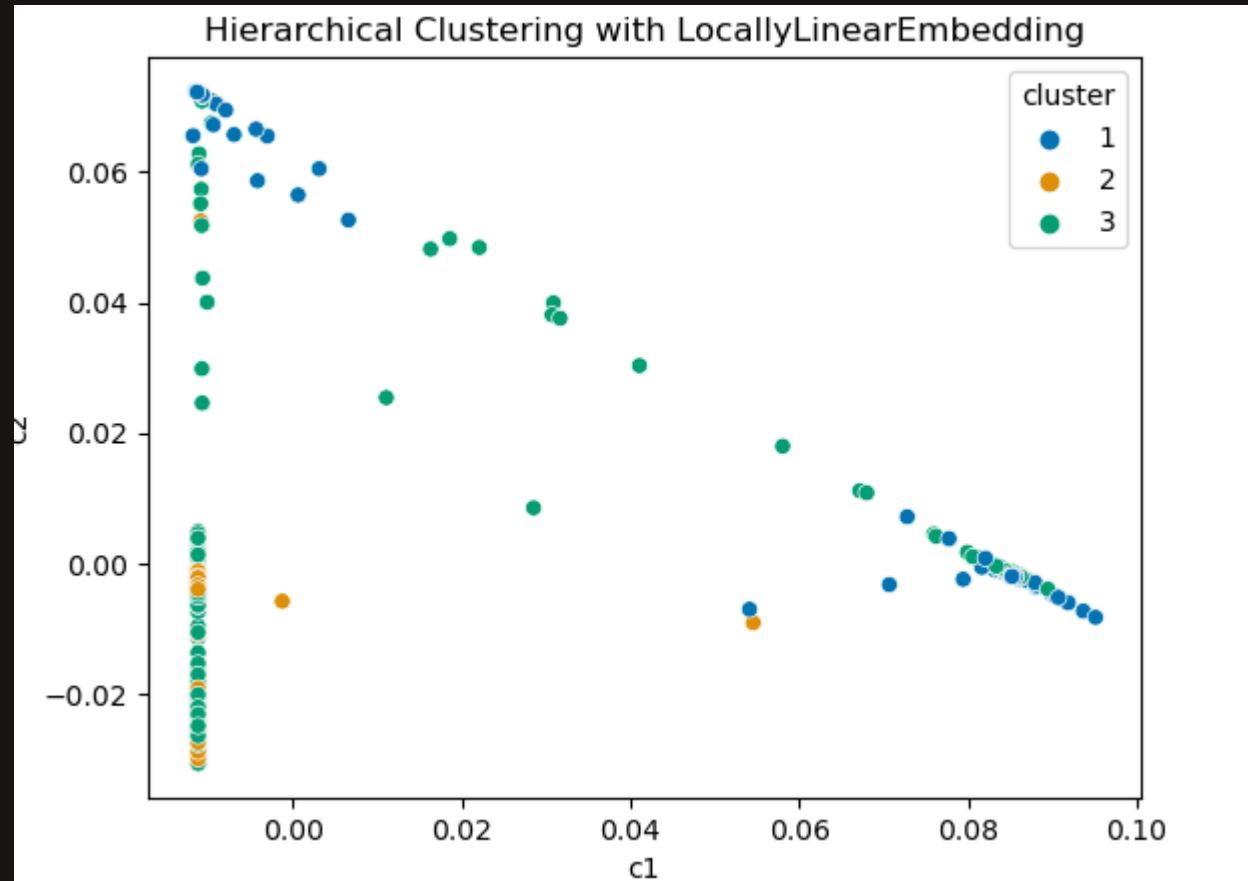
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Variables



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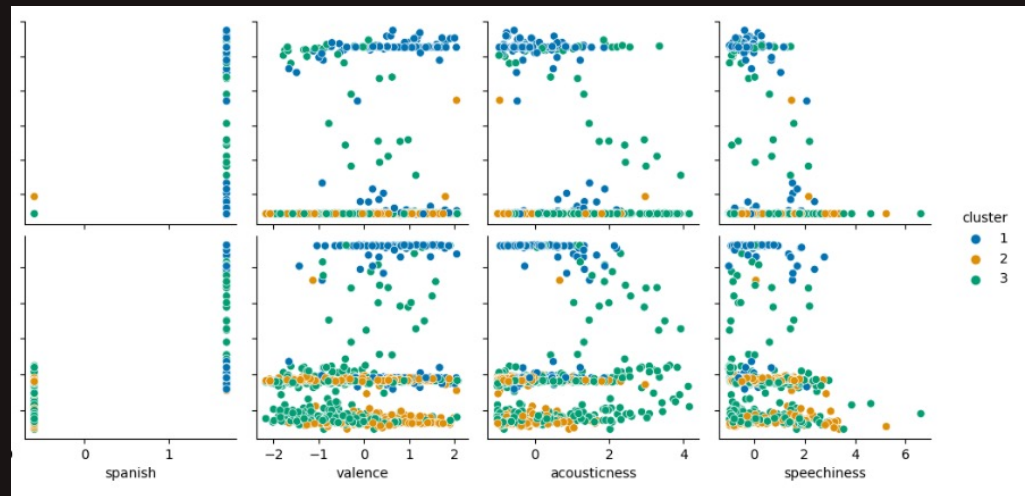
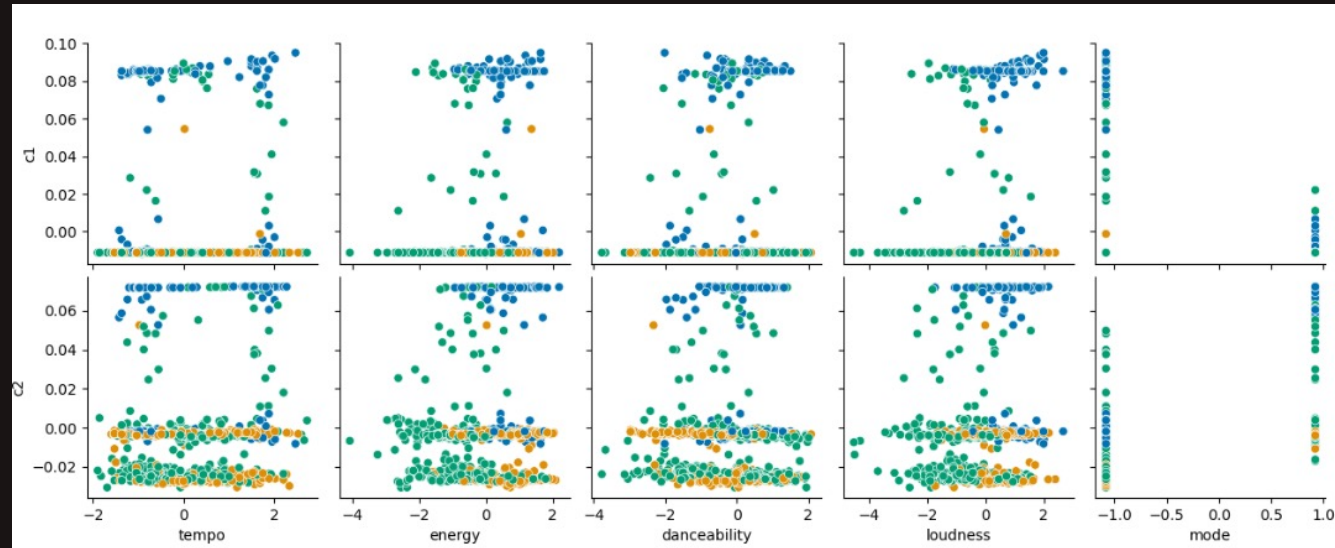
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¡Gracias!

