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      "# This Python 3 environment comes with many helpful analytics
      libraries installed\n",
      "# It is defined by the kaggle/python Docker image:
      https://github.com/kaggle/docker-python\n",
      "# For example, here's several helpful packages to load\n",
      "\n",
      "import numpy as np # linear algebra\n",
      "import pandas as pd # data processing, CSV file I/O (e.g.
      pd.read_csv)\n",
      "\n",
      "# Input data files are available in the read-only \"../input/\"
      directory\n",
      "# For example, running this (by clicking run or pressing
      Shift+Enter) will list all files under the input directory\n",
      "\n",
      "import os\n",
      "for dirname, _, filenames in os.walk('/kaggle/input'):\n",
      "    for filename in filenames:\n",
      "        print(os.path.join(dirname, filename))\n",

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        "\n",
        "# You can write up to 20GB to the current directory
        (/kaggle/working/) that gets preserved as output when you create a
        version using \"Save & Run All\" \n",
        "# You can also write temporary files to /kaggle/temp/, but they
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0.0390  \n",
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time_signature  \n",
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        "---  -

```

#	Column	Non-Null Count	Dtype
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1	name	586601 non-null	object
2	popularity	586672 non-null	int64
3	duration_ms	586672 non-null	int64
4	explicit	586672 non-null	int64
5	artists	586672 non-null	object
6	id_artists	586672 non-null	object
7	release_date	586672 non-null	object
8	danceability	586672 non-null	float64
9	energy	586672 non-null	float64
10	key	586672 non-null	int64
11	loudness	586672 non-null	float64
12	mode	586672 non-null	int64
13	speechiness	586672 non-null	float64
14	acousticness	586672 non-null	float64
15	instrumentalness	586672 non-null	float64
16	liveness	586672 non-null	float64
17	valence	586672 non-null	float64
18	tempo	586672 non-null	float64
19	time_signature	586672 non-null	int64

```

        "dtypes: float64(9), int64(6), object(5)\n",
        "memory usage: 89.5+ MB\n"
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  ]
}

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        "liveness          0\n",
        "valence           0\n",
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        "1922-06-01          1          0.9570          0.797          0.0000
0.148  \n",
        "1922-03-21          1          0.0512          0.994          0.0218
0.212  \n",
        "1922-03-21          1          0.0504          0.995          0.9180
0.104  \n",
        "1922-01-01          0          0.0390          0.989          0.1300
0.311  \n",
        "\n",
        "                                valence    tempo  time_signature  \n",
      "release_date
        "1922-02-22          0.127  104.851          3  \n",
        "1922-06-01          0.655  102.009          1  \n",
        "1922-03-21          0.457  130.418          5  \n",
        "1922-03-21          0.397  169.980          3  \n",
        "1922-01-01          0.196  103.220          4  "
    ]
},
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}
],
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    "df_tracks.set_index(\"release_date\", inplace=True)\n",
    "df_tracks.index = pd.to_datetime(df_tracks.index)\n",
    "df_tracks.head()"
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                    "Name: 1922-01-01 00:00:00, dtype: object"
                ]
            },
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            "metadata": {},
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            "shell.execute_reply": "2023-05-30T11:09:14.370299Z"
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        "papermill": {

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```

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"outputs": [],
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    "df_tracks[\"duration\"] = df_tracks[\"duration_ms\"].apply(lambda x:
round(x/1000))\n",
    "df_tracks.drop(\"duration_ms\", inplace = True, axis = 1)"
]
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                "1922-02-22    127\n",
                "1922-06-01     98\n",
                "1922-03-21    182\n",
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                "1922-01-01    163\n",
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```

```

    "df_tracks.duration.head()"
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```

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]
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