Saransh Rawat (2022OG04027)
Ayush Bansal (2022OG04042)

Use case: **Spotify Recommendation System Platform**

Task 2: **OLTP Queries**

Post completion of the MongoDB setup here are the few queries which I used to demonstrate OTLP queries with respect to the Spotify Solution

1. **Insert Data**: Here is the query to insert a new track to "**spotify_collection**" collection.

```
db.spotify_collection.insertOne({
"track_id": "9Vd5wAMvXdKIAM7WUoEb7N",
"artists": "Gen Woodward",
"album_name": "Comedy",
"track_name": "Comedy",
"popularity": 75,
"duration_ms": 200000,
"explicit": False,
"danceability": 0.6,
"energy": 0.9,
"key": "10",
"loudness": -7.0,
"mode": "1",
"speechiness": 0.156,
"acousticness": 0.45,
"instrumentalness": 0.2,
"liveness": 0.65,
"valence": 0.6,
"tempo": 75.45,
"time_signature": 3,
"track_genre": "pop"
});
```

2. **Update Data:** Update the track_genre of a specific track id **"7b3BUvjQ60OPEBhMckyeTh"** from **"drum-and-bass"** to a **"Pop"**.

```
db.spotify_collection.updateOne(
   { "track_id": "7b3BUvjQ60OPEBhMckyeTh" },
   { $set: { "track_genre": "pop" } }
);
```

3. **Find Popular Tracks in a Specific Album:** Retrieving the tracks from the album **"Hard To Imagine The Neighbourhood Ever Changing"** with a popularity greater than 80.

```
db.spotify_collection.find({ "album_name": "Hard To Imagine The Neighbourhood Ever Changing", "popularity": { $gt: 80 } });
```

4. **Delete a Track:** Deletes a track document with the id **"9Vd5wAMvXdKIAM7WUoEb7N"** from the collection.

```
db.spotify_collection.deleteOne({ "track_id": "9Vd5wAMvXdKIAM7WUoEb7N" });
```