

# Netflix\_MongoDB\_Report

## (Netflix Dataset)

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### Part 1: Data Import Report

#### Dataset Description

- **Dataset Name:** Netflix Movies & TV Shows
- **Source:** Kaggle - Netflix Shows Dataset
- **Format:** CSV file (netflix\_titles.csv)
- **Size:** 8,807 records
- **Fields Included:** type, title, director, cast, country, date\_added, release\_year, rating, duration, listed\_in, description

#### Import Setup (Docker)

- MongoDB container setup using:

```
docker run --name mongodb \
  -p 27017:27017 \
  -d \
  -v ~/dsc505:/data/db \
  mongo:5
```

#### Import Command Used

```
docker exec mongodb mongoimport \
  --db dsc505 \
  --collection netflix \
  --type csv \
  --headerline \
  --file /data/db/netflix_titles.csv
```

#### Result

- **8,807 documents** successfully imported.
- Verified by running:

```
db.netflix.countDocuments()
```

- Output: 8807

## Challenges & Resolutions

- Minor adjustments to path during import based on Docker volume
  - No major issues faced during import
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## Part 2: Analysis Results

### ✓ 1. Count of All Records

```
db.netflix.countDocuments()
```

- Result: **8807**

```
dsc505> db.netflix.countDocuments()  
8807
```

### ✓ 2. Sample Record Preview

```
db.netflix.findOne()
```

- Example Record:
  - Title: *Dick Johnson Is Dead*
  - Type: *Movie*
  - Country: *United States*
  - Release Year: *2020*
  - Duration: *90 min*

```
dsc505> db.netflix.findOne()  
{  
  _id: ObjectId('680829959b44d8a674420746'),  
  show_id: 's1',  
  type: 'Movie',  
  title: 'Dick Johnson Is Dead',  
  director: 'Kirsten Johnson',  
  cast: '',  
  country: 'United States',  
  date_added: 'September 25, 2021',  
  release_year: 2020,  
  rating: 'PG-13',  
  duration: '90 min',  
  listed_in: 'Documentaries',  
  description: 'As her father nears the end of his life, filmmaker Kirsten J  
ohnson stages his death in inventive and comical ways to help them both face  
the inevitable.'  
}
```

### ✓ 3. Count by Type (Movie vs TV Show)

```
db.netflix.aggregate([
  { $group: { _id: "$type", count: { $sum: 1 } } }
])
```

- Output:
  - TV Show: 2,676
  - Movie: 6,131

```
dsc505> db.netflix.aggregate([
...   { $group: { _id: "$type", count: { $sum: 1 } } }
... ])
[ { _id: 'TV Show', count: 2676 }, { _id: 'Movie', count: 6131 } ]
dsc505> █
```

#### ✓ 4. Top 5 Countries by Number of Titles

```
db.netflix.aggregate([
{ $group: { _id: "$country", count: { $sum: 1 } } },
{ $sort: { count: -1 } },
{ $limit: 5 }
])
```

- Output:
  - United States: 2,818
  - India: 972
  - Unknown (empty): 831
  - United Kingdom: 419
  - Japan: 245

```
dsc505> db.netflix.aggregate([
...   { $group: { _id: "$country", count: { $sum: 1 } } },
...   { $sort: { count: -1 } },
...   { $limit: 5 }
... ])
[
  { _id: 'United States', count: 2818 },
  { _id: 'India', count: 972 },
  { _id: '', count: 831 },
  { _id: 'United Kingdom', count: 419 },
  { _id: 'Japan', count: 245 }
]
```

#### ✓ 5. Earliest Release Year

```
db.netflix.aggregate([
  { $group: { _id: null, minYear: { $min: "$release_year" } } }
])
```

- Output: 1925

```
dsc505> db.netflix.aggregate([
...   { $group: { _id: null, minYear: { $min: "$release_year" } } }
... ])
[ { _id: null, minYear: 1925 } ]
. _ _ _ █
```

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## Insights & Summary

- **Movies** constitute the majority of the content on Netflix (about 70%).
  - The **United States** and **India** are the most common countries of production.
  - Netflix content spans nearly a century, with the earliest title released in **1925**.
  - MongoDB queries helped easily group and extract summary statistics from over 8,800 records.
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