

MONGODB ANALYSIS:

1. Wrestlers with the Most Positive, Negative, and Neutral Sentiment:

This is based on the Sentiment_Words column in the finalComments collection:

a. POSITIVE SENTIMENTS:

```
FINALCOMMENTS> db.finalComments.aggregate([
...   { $match: { Sentiment_Words: "Positive" } }, // Filter for positive
sentiments
...   {
...     $group: {
...       _id: "$Author",
...       count: { $sum: 1 }
...     }
...   },
...   { $sort: { count: -1 } }
... ])
[
  { _id: 'demarco adkins', count: 682 },
  { _id: 'SKel G00AALL', count: 336 },
  { _id: 'WrestleTalk', count: 326 },
  { _id: 'Micheal Wilson', count: 154 },
  { _id: 'rkmanzo', count: 108 },
  { _id: 'Antonio Gutierrez', count: 74 },
  { _id: 'Dark Starr', count: 56 },
  { _id: 'James Brockington Jr.', count: 34 },
  { _id: 'F. K.', count: 32 },
  { _id: 'ChronoXShadow', count: 32 },
  { _id: 'Mike Besk', count: 30 },
  { _id: 'underwearskids', count: 30 },
  { _id: 'S from', count: 30 },
  { _id: 'Dillon Haggett', count: 28 },
  { _id: 'Jacob Navarro', count: 28 },
  { _id: 'Gary Hen', count: 28 },
  { _id: 'David Moses Israel (Issachar)', count: 26 },
  { _id: 'rob91Harvey', count: 26 },
  { _id: 'Jamond Ross', count: 24 },
  { _id: 'Cameron Morgan', count: 24 }
]
```

b. NEGATIVE SENTIMENTS:

```
FINALCOMMENTS> // For negative sentiment
```

```
FINALCOMMENTS> db.finalComments.aggregate([
...   { $match: { Sentiment_Words: "Negative" } }, // Filter for negative
sentiments
...   {
...     $group: {
...       _id: "$Author",
...       count: { $sum: 1 }
...     }
...   },
...   { $sort: { count: -1 } }
... ])
[
  { _id: 'WrestleTalk', count: 334 },
```

```

{ _id: 'SKeL G00AALL', count: 286 },
{ _id: 'demarco adkins', count: 82 },
{ _id: 'Dillon Haggett', count: 34 },
{ _id: 'Jacob Navarro', count: 34 },
{ _id: 'Mike Besk', count: 26 },
{ _id: 'Antonio Gutierrez', count: 24 },
{ _id: 'Dark Starr', count: 22 },
{ _id: 'OneManCast', count: 22 },
{ _id: 'James Brockington Jr.', count: 20 },
{ _id: 'Jashmail Mathis', count: 16 },
{ _id: 'rob91Harvey', count: 16 },
{ _id: 'Luis Pineda Jr.', count: 16 },
{ _id: 'F. K.', count: 14 },
{ _id: 'underwearskids', count: 14 },
{ _id: 'Raven Zombie', count: 12 },
{ _id: 'Dunkey Is Black', count: 12 },
{ _id: 'Xhumed', count: 12 },
{ _id: 'GS T', count: 12 },
{ _id: 'Daminashun', count: 12 }
]

```

c. NEUTRAL SENTIMENTS:

```
FINALCOMMENTS> // For neutral sentiment
```

```

FINALCOMMENTS> db.finalComments.aggregate([
...   { $match: { Sentiment_Words: "Neutral" } }, // Filter for neutral
sentiments
...   {
...     $group: {
...       _id: "$Author",
...       count: { $sum: 1 }
...     }
...   },
...   { $sort: { count: -1 } }
... ])
[
{ _id: 'SKeL G00AALL', count: 110 },
{ _id: 'Micheal Wilson', count: 82 },
{ _id: 'WrestleTalk', count: 38 },
{ _id: 'David Moses Israel (Issachar)', count: 32 },
{ _id: 'rkmanzo', count: 26 },
{ _id: 'Luis Pineda Jr.', count: 24 },
{ _id: 'Neil Haley', count: 22 },
{ _id: 'Dillon Haggett', count: 22 },
{ _id: 'Antonio Gutierrez', count: 22 },
{ _id: 'Gary Hen', count: 20 },
{ _id: 'Ryan S', count: 18 },
{ _id: 'Zedric Copeland', count: 16 },
{ _id: 'Synyster Goose', count: 16 },
{ _id: 'Tyler Skaife', count: 16 },
{ _id: 'underwearskids', count: 16 },
{ _id: 'James Brockington Jr.', count: 14 },
{ _id: 'Lady Mary- Katherine Elizabeth Wojtyla-McRaven', count: 12 },
{ _id: 'Free Bird', count: 12 },
{ _id: 'Tarrance Sutton', count: 12 },
{ _id: 'Reggielacey 223', count: 12 }
]

```

2. Sentiment Analysis over Time:

```
FINALCOMMENTS> db.finalComments.aggregate([
...   {
...     $group: {
...       _id: { $dateToString: { format: "%Y-%m-%d", date: "$timestamp" } }, //
Assuming there's a 'timestamp' field
...       averageSentiment: { $avg: "$Sentiment" },
...       positiveCount: {
...         $sum: { $cond: [{ $eq: ["$Sentiment_Words", "Positive"] }, 1, 0] }
...       },
...       negativeCount: {
...         $sum: { $cond: [{ $eq: ["$Sentiment_Words", "Negative"] }, 1, 0] }
...       },
...       neutralCount: {
...         $sum: { $cond: [{ $eq: ["$Sentiment_Words", "Neutral"] }, 1, 0] }
...       }
...     }
...   },
...   { $sort: { "_id": 1 } }
... ])
[
  {
    _id: null,
    averageSentiment: 0.16169780188409935,
    positiveCount: 10558,
    negativeCount: 5404,
    neutralCount: 5056
  }
]
```

3. Common Words used:

```
FINALCOMMENTS> db.finalComments.aggregate([
...   {
...     $project: {
...       words: { $split: [{ $toString: "$Comment_No_Stopword" }, " "] } //
Convert to string before split
...     }
...   },
...   { $unwind: "$words" },
...   {
...     $group: {
...       _id: "$words",
...       count: { $sum: 1 }
...     }
...   },
...   { $sort: { count: -1 } },
...   { $limit: 10 } // Top 10 most common words
... ])
[
  { _id: '-', count: 4934 },
  { _id: 'WWE', count: 3750 },
  { _id: 'AEW', count: 2706 },
  { _id: 'like', count: 2448 },
  { _id: 'would', count: 1752 },
  { _id: 'wrestling', count: 1618 },
  { _id: 'think', count: 1574 },
  { _id: 'know', count: 1400 },
  { _id: 'see', count: 1392 },
  { _id: 'match', count: 1384 }
]
```

FINALCOMMENTS> use WRESTLERINFO
switched to db WRESTLERINFO

4. Most Frequent Wrestler Name:

This would be based on the Ring Name from the wrestlerInfo collection:

```
WRESTLERINFO> db.wrestlerInfo.aggregate([
...   {
...     $group: {
...       _id: "$Ring Name", // Group by the wrestler ring name
...       count: { $sum: 1 } // Count occurrences
...     }
...   },
...   {
...     $sort: { count: -1 } // Sort by count in descending order
...   }
... ])
[
  { _id: 'Nikki Cross', count: 2 },
  { _id: 'Thea Hail', count: 2 },
  { _id: 'Meiko Satomura', count: 2 },
  { _id: 'Ivy Nile', count: 2 },
  { _id: 'Tatsumi Fujinami', count: 2 },
  { _id: 'RTruth', count: 2 },
  { _id: 'Tatum Paxley', count: 2 },
  { _id: 'Boa', count: 2 },
  { _id: 'Blair Davenport', count: 2 },
  { _id: 'Tyler Bate', count: 2 },
  { _id: 'Wade Barrett', count: 2 },
  { _id: 'Scrypts', count: 2 },
  { _id: 'Roxanne Perez', count: 2 },
  { _id: 'Sanga', count: 2 },
  { _id: 'Brutus Creed', count: 2 },
  { _id: 'Vince McMahon', count: 2 },
  { _id: 'Brock Lesnar', count: 2 },
  { _id: 'Dijak', count: 2 },
  { _id: 'Asuka', count: 2 },
  { _id: 'Zelina Vega', count: 2 }
]
```

5. Most Mentioned Finisher:

Based on the Finisher column in the wrestlerInfo collection:

```
WRESTLERINFO> db.wrestlerInfo.aggregate([
...   {
...     $group: {
...       _id: "$Finisher", // Group by the finisher move
...       count: { $sum: 1 } // Count occurrences of each finisher move
...     },
...   },
...   {
...     $sort: { count: -1 } // Sort by count in descending order
...   }
... ])
[
  { _id: 'Running Powerslam', count: 4 },
  { _id: 'Samoan Splash', count: 4 },
  { _id: 'Code Red', count: 4 },
  { _id: 'Spinning Heel Kick', count: 4 },
  { _id: '630° Senton', count: 4 },
  { _id: 619, count: 4 },
  { _id: 'The Final Prayer', count: 2 },
  { _id: 'Devlin Side / Devil Inside', count: 2 },
  { _id: 'Stunner', count: 2 },
  { _id: 'Gallows Pole / Hangman's Noose', count: 2 },
  { _id: 'McMahon Stunner', count: 2 },
  { _id: 'Diving Split Legdrop', count: 2 },
  { _id: 'Pop-Up Kneeling Powerbomb', count: 2 },
  { _id: 'Rocket Kick', count: 2 },
  { _id: 'Khallas', count: 2 },
  { _id: 'Cervical Clutch', count: 2 },
  { _id: 'Caber Toss Suplex', count: 2 },
  { _id: 'Big Top Pop', count: 2 },
  { _id: 'Death Rowe', count: 2 },
  { _id: 'Flawless Victory', count: 2 }
]
```

6. Wrestler Popularity by Gender:

```
WRESTLERINFO> db.wrestlerInfo.aggregate([
...   {
...     $group: {
...       _id: "$Gender", // Group by the gender field
...       numberOfWrestlers: { $sum: 1 } // Count the number of wrestlers per
gender
...     }
...   },
...   {
...     $sort: { numberOfWrestlers: -1 } // Sort by the count in descending
order
...   }
... ])
[
  { _id: 'Male', numberOfWrestlers: 238 },
  { _id: 'Female', numberOfWrestlers: 128 }
]
```

7. Geographic Distribution:

```
WRESTLERINFO> db.wrestlerInfo.aggregate([
...   {
...     $group: {
...       _id: "$Birth Place",
...       count: { $sum: 1 }
...     }
...   },
...   {
...     $sort: { count: -1 }
...   }
... ])
[
  { _id: 'Glasgow, Scotland', count: 10 },
  { _id: 'Los Angeles, California', count: 6 },
  { _id: 'Knoxville, Tennessee', count: 6 },
  { _id: 'Chicago, Illinois', count: 4 },
  { _id: 'Queens, New York', count: 4 },
  { _id: 'Lagos, Nigeria', count: 4 },
  { _id: 'Sydney, New South Wales, Australia', count: 4 },
  { _id: 'Sacramento, California', count: 4 },
  { _id: 'Cleveland, Ohio', count: 4 },
  { _id: 'Tampa, Florida', count: 4 },
  { _id: 'Charlotte, North Carolina', count: 4 },
  { _id: 'Calgary, Alberta, Canada', count: 4 },
  { _id: 'San Francisco, California', count: 4 },
  { _id: 'Pittsburgh, Pennsylvania', count: 4 },
  { _id: 'Monterrey, Nuevo León, Mexico', count: 2 },
  { _id: 'Limerick, Republic of Ireland', count: 2 },
  { _id: 'Penwortham, Lancashire, England', count: 2 },
  { _id: 'Edgewater, Illinois', count: 2 },
  { _id: 'Tokyo, Japan', count: 2 },
  { _id: 'Springfield, Missouri', count: 2 }
]
```