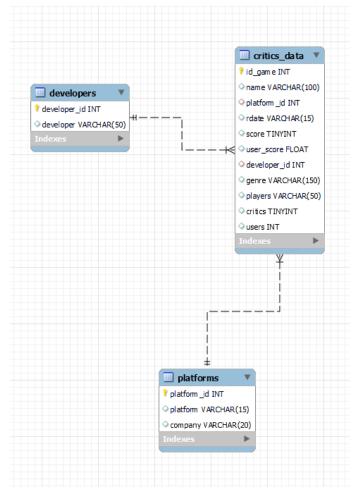
Proyecto "Is this game good?"

- 1. Definición del proyecto.
- La base de datos se obtuvo de Kaggle, cuyo link se puede acceder aquí.
- La base de datos se encuentra actualizada desde el inicio de Metacritic hasta finales del 2020.
- Este proyecto busca predecir, dependiendo de la consola, desarrollador y género, qué tipo de videojuegos son más populares.

2. Definición de la base de datos.

La base de datos principal (games-data-exp.csv) cuenta con 17944 juegos, mientras que el archivo platforms.csv cuenta con 22 datos y el archivo developer-exp.csv cuenta con 4249 datos. A continuación se presenta el diagrama de relaciones:



Relación entre tablas.

3. Creación de la base de datos.

Se limpiaron y normalizaron los datos para que se pudieran importar al MySQL Workbench. En MySQL se acortó la tabla a 498 videojuegos y, a base de esto, la tabla de developers a 182 datos; se tomó esta decisión para ver el funcionamiento de los queries y, por otra parte, el rendimiento de MySQL al importar los datos.



Tabla "critics_data".

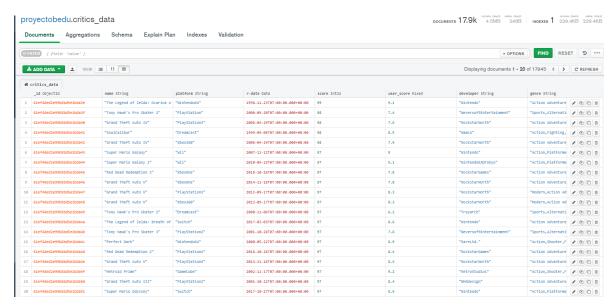
| 4. | 3 • | SELEC | т * | from | pla | tforms; | | |
|-----|-----------|-------|--------------|---------------------|---------|----------|---|---|
| 4 | 4 • | SELEC | T * | from | dev | elopers | | |
| 4 | | | | | | tics dat | | |
| 4 | | JEEEE | | | | cres_da | , | |
| | | L | | | | | | 1 |
| Res | sult Grid | | 63 | Filter Ro | ows: | | | E |
| | develop | er_id | dev | eloper | | | | |
| • | 1 | | Ninte | | | | | |
| | 2 | | | ersoftEr starNor | | ainment | | |
| | 4 | | Nam | | uı | | | |
| | 5 | | | OTokyo | | | | |
| | 6 | | Rock | starGa | nes | | | |
| | 7 | | Trey | arch | | | | |
| | 8 | | Rare | | | | | |
| | 9 | | | oStudio Danian | S | | | |
| | 10 11 | | | Design jieSoftv | are | | | |
| | 12 | | _ | alConce | | | | |
| | 13 | | | eSoftwa | | | | |
| | 14 | | Irrat | ionalGa | mes, | 2KMarin | | |
| | 15 | | | htyDog |) | | | |
| | 16 | | Capo | | | | | |
| | 17 18 | | BioW | steady /are | Stuai | os | | |
| | 19 | | | esdaGa | meSt | tudios | | |
| | 20 | | | phonyD | | | | |
| | 21 | | KCE. |) | | | | |
| | 22 | | SCE | wws, | 1edia | Molecule | | |
| | 23 | | | starSar | Dieg | 0 | | |
| - | 24 25 | | | oorts iousVisi | one | | | |
| | 26 | | Atlus | | OHS | | | |
| | 27 | | | | ıction | s,Mob | | |
| | 28 | | 2DB | ру | | | | |
| | 29 | | | ionalGa | mes | | | |
| | 30 | | | reSoft | | | | |
| | 31 32 | | | ityWard SantaMo | | | | |
| | 33 | | GRE | | Jilica | | | |
| | 34 | | | MakesG | ame | sInc. | | |
| | 35 | | Digit | alExtre | nes, | 2KMarin | | |
| | 36 | | | buron | | | | |
| | 37 | | | Sames | | | | |
| | 38 39 | | MPS | esdaSo | ftwoi | rks | | |
| | 40 | | | ftware | | | | |
| | 41 | | | jieSoftv | vare, | Bungie | | |
| | 42 | | Tear | nNinja | | | | |
| | 43 | | Smile | bit | | | | |
| | 44 | | | sArts | | | | |
| | 45 46 | | | oftMont rionGar | | | | |
| | 47 | | | rionGar ardEnte | | ment | | |
| | 48 | | Aspe | | . com I | | | |
| | 49 | | | naProdu | ction | IS | | |
| | 50 | | Fira | dsGame | S | | | |
| | | | Sega | AM2 | | | | |
| | 51 | | | | | | | |
| | 52 | | | rojektR | edSt. | ıdio | | |
| | 52 53 | | Gam | eArts | edSt. | ıdio | | |
| | 52 | | Gam Relic | eArts | | ıdio | | |

Tabla "developers".



Tabla "platforms".

Para la base de datos en MongoDB, no se acortaron los datos y se subió toda la tabla en una sola.



Base de datos en MongoDB.

4. Consultas.

1. Top 20 de juegos mejor calificados según la crítica junto con su calificación. SQL:

SELECT name, ROUND(avg(score),2) AS avg_score FROM critics_data GROUP BY name ORDER BY avg_score desc LIMIT 20;

```
[{$project: {
    name: 1,
    score: 1,
    _id: 0
}}, {$group: {
    _id: '$name',
    avg_score: {
    $avg: '$score'
}
}}, {$sort: {
    avg_score: -1
}}, {$limit: 20}]
```

| | _ | |
|---|--------------------------------------|-----------|
| | name | avg_score |
| • | The Legend of Zelda: Ocarina of Time | 99.00 |
| | Grand Theft Auto IV | 98.00 |
| | SoulCalibur | 98.00 |
| | Super Mario Galaxy | 97.00 |
| | Super Mario Galaxy 2 | 97.00 |
| | Perfect Dark | 97.00 |
| | Metroid Prime | 97.00 |
| | Super Mario Odyssey | 97.00 |
| | Halo: Combat Evolved | 97.00 |
| | NFL 2K1 | 97.00 |
| | Grand Theft Auto V | 96.80 |
| | The Legend of Zelda: Breath of the | 96.50 |
| | Half-Life | 96.00 |
| | The Orange Box | 96.00 |
| | Gran Turismo | 96.00 |
| | Tekken 3 | 96.00 |
| | The Legend of Zelda: The Wind Waker | 96.00 |
| | GoldenEye 007 | 96.00 |
| | Uncharted 2: Among Thieves | 96.00 |
| | Resident Evil 4 | 96.00 |
| | | |



2. Top 20 de juegos mejor calificados según los usuarios con su calificación.

SQL:

SELECT name, ROUND(avg(user_score),2) AS avg_user_score FROM critics_data GROUP BY name ORDER BY avg_user_score desc LIMIT 20;

MongoDB:

```
[{$project: {
  name: 1,
  user_score: 1,
  _id: 0
}}, {$match: {
  user_score: {
    $exists: true
  }
}}, {$group: {
  _id: '$name',
  avg_score: {
```

```
$avg: '$user_score'
}
}}, {$sort: {
avg_score: -1
}}, {$limit: 20}]
```

| | name | avg_user_score |
|---|------------------------------------|----------------|
| • | The Witcher 3: Wild Hunt | 9.27 |
| | Portal | 9.2 |
| | The Legend of Zelda: Majora's Mask | 9.2 |
| | The Last of Us Remastered | 9.2 |
| | Planescape: Torment | 9.2 |
| | Castlevania: Symphony of the Night | 9.2 |
| | Warcraft III: Reign of Chaos | 9.2 |
| | Xenoblade Chronicles | 9.2 |
| | Metroid Prime | 9.2 |
| | Deus Ex | 9.2 |
| | Metal Gear Solid | 9.2 |
| | The Witcher 3: Wild Hunt - Blood a | 9.2 |
| | Super Mario 64 | 9.2 |
| | The Last of Us | 9.2 |
| | Tekken 3 | 9.1 |
| | Super Mario Galaxy 2 | 9.1 |
| | Paper Mario | 9.1 |
| | Vagrant Story | 9.1 |
| | Grim Fandango | 9.1 |
| | Resident Evil 4 | 9.1 |

| | _id String | avg_score Double |
|----|---------------------------------|------------------|
| 1 | "GrimGrimoire" | 9.8 |
| 2 | "Metal Torrent" | 9.7 |
| 3 | "Ghost Trick: Phantom Detective | 9.7 |
| 4 | "Diaries of a Spaceport Janitor | 9.7 |
| 5 | "Z.H.P. Unlosing Ranger vs Dark | 9.7 |
| 6 | "Tengami" | 9.7 |
| 7 | "Crystar" | 9.6 |
| 8 | "Part Time UFO" | 9.6 |
| 9 | "The Witcher 3: Wild Hunt" | 9.2666666666666 |
| 10 | "Super Mario 64" | 9.2 |
| 11 | "Warcraft III: The Frozen Thron | 9.2 |
| 12 | "The Legend of Zelda: Majora's | 9.2 |
| 13 | "Suikoden II" | 9.2 |
| 14 | "Portal" | 9.2 |
| 15 | "Metroid Prime" | 9.2 |
| 16 | "Ghost of Tsushima" | 9.2 |
| 17 | "The Witcher 3: Wild Hunt - Blo | 9.2 |
| 18 | "Xenoblade Chronicles" | 9.2 |
| 19 | "Deus Ex" | 9.2 |
| 20 | "God Hand" | 9.2 |
| | | |

}}]

3. Juegos que tienen una calificación de 90 o mayor (criticas). SQL: SELECT name FROM critics_data WHERE score >= 95 group by name; MongoDB: [{\$project: { name: 1, score: 1, _id: 0 }}, {\$group: { _id: '\$name', avg_score: { \$avg: '\$score' } }}, {\$match: { avg_score: { \$gte: 95 }

| | name |
|---|---|
| • | The Legend of Zelda: Ocarina of Time |
| | Tony Hawk's Pro Skater 2 |
| | Grand Theft Auto IV |
| | SoulCalibur |
| | Super Mario Galaxy |
| | Super Mario Galaxy 2 |
| | Red Dead Redemption 2 |
| | Grand Theft Auto V |
| | The Legend of Zelda: Breath of the Wild |
| | Tony Hawk's Pro Skater 3 |
| | Perfect Dark |
| | Metroid Prime |
| | Grand Theft Auto III |
| | Super Mario Odyssey |
| | Halo: Combat Evolved |
| | NFL 2K1 |
| | Half-Life 2 |
| | BioShock |
| | GoldenEye 007 |
| | Uncharted 2: Among Thieves |
| | Resident Evil 4 |
| | The Orange Box |
| | Batman: Arkham City |
| | Tekken 3 |
| | Mass Effect 2 |
| | The Legend of Zelda: Twilight Princess |
| | The Elder Scrolls V: Skyrim |
| | Half-Life |
| | The Legend of Zelda: The Wind Waker |
| | Gran Turismo |
| | Metal Gear Solid 2: Sons of Liberty |
| | Grand Theft Auto Double Pack |
| | Baldur's Gate II: Shadows of Amn |
| | Grand Theft Auto: San Andreas |
| | Grand Theft Auto: Vice City |
| | LittleBigPlanet |
| | The Legend of Zelda Collector's Edition |
| | Red Dead Redemption |
| | Gran Turismo 3: A-Spec |
| | Halo 2 |

| 1 "The Legend of Zelda: The Wind 96 2 "Red Dead Redemption" 95 3 "Grand Theft Auto IV" 95.333333333333333333333333333333333333 | | _id String | avg_score Double |
|---|----|---------------------------------|------------------|
| 3 "Grand Theft Auto IV" 95.333333333333333333333333333333333333 | 1 | "The Legend of Zelda: The Wind | 96 |
| 4 "Super Mario Galaxy" 97 5 "Metal Gear Solid 2: Sons of Li 96 6 "Red Dead Redemption 2" 95.66666666667 7 "Super Mario Odyssey" 97 8 "Gran Turismo" 96 9 "Grand Theft Auto V" 96.8 10 "NFL 2K1" 97 11 "The Last of Us" 95 12 "Uncharted 2: Among Thieves" 96 13 "The Legend of Zelda: Breath of 96.5 14 "Portal 2" 95 15 "Metroid Prime" 97 16 "The Legend of Zelda: Twilight 95.5 17 "Super Mario Galaxy 2" 97 18 "The Legend of Zelda: A Link to 95 19 "The Legend of Zelda Collector' 95 | 2 | "Red Dead Redemption" | 95 |
| 5 "Metal Gear Solid 2: Sons of Li 96 6 "Red Dead Redemption 2" 95.6666666666667 7 "Super Mario Odyssey" 97 8 "Gran Turismo" 96 9 "Grand Theft Auto V" 96.8 10 "NFL 2K1" 97 11 "The Last of Us" 95 12 "Uncharted 2: Among Thieves" 96 13 "The Legend of Zelda: Breath of 96.5 14 "Portal 2" 95 15 "Metroid Prime" 97 16 "The Legend of Zelda: Twilight 95.5 17 "Super Mario Galaxy 2" 97 18 "The Legend of Zelda: A Link to 95 19 "The Legend of Zelda Collector' 95 | 3 | "Grand Theft Auto IV" | 95.3333333333333 |
| 6 "Red Dead Redemption 2" 95.66666666667 7 "Super Mario Odyssey" 97 8 "Gran Turismo" 96 9 "Grand Theft Auto V" 96.8 10 "NFL 2K1" 97 11 "The Last of Us" 95 12 "Uncharted 2: Among Thieves" 96 13 "The Legend of Zelda: Breath of 96.5 14 "Portal 2" 95 15 "Metroid Prime" 97 16 "The Legend of Zelda: Twilight 95.5 17 "Super Mario Galaxy 2" 97 18 "The Legend of Zelda: A Link to 95 19 "The Legend of Zelda Collector' 95 | 4 | "Super Mario Galaxy" | 97 |
| 7 "Super Mario Odyssey" 97 8 "Gran Turismo" 96 9 "Grand Theft Auto V" 96.8 10 "NFL 2K1" 97 11 "The Last of Us" 95 12 "Uncharted 2: Among Thieves" 96 13 "The Legend of Zelda: Breath of 96.5 14 "Portal 2" 95 15 "Metroid Prime" 97 16 "The Legend of Zelda: Twilight 95.5 17 "Super Mario Galaxy 2" 97 18 "The Legend of Zelda: A Link to 95 19 "The Legend of Zelda Collector' 95 | 5 | "Metal Gear Solid 2: Sons of Li | 96 |
| 8 "Gran Turismo" 96 9 "Grand Theft Auto V" 96.8 10 "NFL 2K1" 97 11 "The Last of Us" 95 12 "Uncharted 2: Among Thieves" 96 13 "The Legend of Zelda: Breath of 96.5 14 "Portal 2" 95 15 "Metroid Prime" 97 16 "The Legend of Zelda: Twilight 95.5 17 "Super Mario Galaxy 2" 97 18 "The Legend of Zelda: A Link to 95 19 "The Legend of Zelda Collector' 95 | 6 | "Red Dead Redemption 2" | 95.6666666666667 |
| 9 "Grand Theft Auto V" 96.8 10 "NFL 2K1" 97 11 "The Last of Us" 95 12 "Uncharted 2: Among Thieves" 96 13 "The Legend of Zelda: Breath of 96.5 14 "Portal 2" 95 15 "Metroid Prime" 97 16 "The Legend of Zelda: Twilight 95.5 17 "Super Mario Galaxy 2" 97 18 "The Legend of Zelda: A Link to 95 19 "The Legend of Zelda Collector' 95 | 7 | "Super Mario Odyssey" | 97 |
| 10 "NFL 2K1" 97 11 "The Last of Us" 95 12 "Uncharted 2: Among Thieves" 96 13 "The Legend of Zelda: Breath of 96.5 14 "Portal 2" 95 15 "Metroid Prime" 97 16 "The Legend of Zelda: Twilight 95.5 17 "Super Mario Galaxy 2" 97 18 "The Legend of Zelda: A Link to 95 19 "The Legend of Zelda Collector' 95 | 8 | "Gran Turismo" | 96 |
| 11 "The Last of Us" 95 12 "Uncharted 2: Among Thieves" 96 13 "The Legend of Zelda: Breath of 96.5 14 "Portal 2" 95 15 "Metroid Prime" 97 16 "The Legend of Zelda: Twilight 95.5 17 "Super Mario Galaxy 2" 97 18 "The Legend of Zelda: A Link to 95 19 "The Legend of Zelda Collector' 95 | 9 | "Grand Theft Auto V" | 96.8 |
| "Uncharted 2: Among Thieves" 96 "The Legend of Zelda: Breath of 96.5 "Portal 2" 95 "Metroid Prime" 97 "The Legend of Zelda: Twilight 95.5 "Super Mario Galaxy 2" 97 "The Legend of Zelda: A Link to 95 "The Legend of Zelda Collector' 95 | 10 | "NFL 2K1" | 97 |
| 13 "The Legend of Zelda: Breath of 96.5 14 "Portal 2" 95 15 "Metroid Prime" 97 16 "The Legend of Zelda: Twilight 95.5 17 "Super Mario Galaxy 2" 97 18 "The Legend of Zelda: A Link to 95 19 "The Legend of Zelda Collector' 95 | 11 | "The Last of Us" | 95 |
| 14 "Portal 2" 95 15 "Metroid Prime" 97 16 "The Legend of Zelda: Twilight 95.5 17 "Super Mario Galaxy 2" 97 18 "The Legend of Zelda: A Link to 95 19 "The Legend of Zelda Collector' 95 | 12 | "Uncharted 2: Among Thieves" | 96 |
| 15 "Metroid Prime" 97 16 "The Legend of Zelda: Twilight 95.5 17 "Super Mario Galaxy 2" 97 18 "The Legend of Zelda: A Link to 95 19 "The Legend of Zelda Collector' 95 | 13 | "The Legend of Zelda: Breath of | 96.5 |
| 16 "The Legend of Zelda: Twilight 95.5 17 "Super Mario Galaxy 2" 97 18 "The Legend of Zelda: A Link to 95 19 "The Legend of Zelda Collector' 95 | 14 | "Portal 2" | 95 |
| 17 "Super Mario Galaxy 2" 97 18 "The Legend of Zelda: A Link to 95 19 "The Legend of Zelda Collector' 95 | 15 | "Metroid Prime" | 97 |
| 18 "The Legend of Zelda: A Link to 95 19 "The Legend of Zelda Collector' 95 | 16 | "The Legend of Zelda: Twilight | 95.5 |
| 19 "The Legend of Zelda Collector' 95 | 17 | "Super Mario Galaxy 2" | 97 |
| | 18 | "The Legend of Zelda: A Link to | 95 |
| 20 "The Legend of Zelda: Majora's 95 | 19 | "The Legend of Zelda Collector' | 95 |
| | 20 | "The Legend of Zelda: Majora's | 95 |

4. Juegos que tienen una calificación de 9 o mayor (usuarios).

SQL:

SELECT name FROM critics_data WHERE user_score >= 9 group by name;

MongoDB:

```
[{$project: {
name: 1,
user_score: 1,
_id: 0
}}, {$match: {
user_score: {
$exists: true
}
```

```
}}, {$group: {
   _id: '$name',
   avg_score: {
     $avg: '$user_score'
}
}}}, {$match: {
   avg_score: {
     $gte: 9
}
}}
```

| | name |
|---|---|
| • | The Legend of Zelda: Ocarina of Time |
| | Super Mario Galaxy |
| | Super Mario Galaxy 2 |
| | Metroid Prime |
| | Half-Life 2 |
| | GoldenEye 007 |
| | Resident Evil 4 |
| | The Orange Box |
| | Tekken 3 |
| | Half-Life |
| | The Legend of Zelda: The Wind Waker |
| | Baldur's Gate II: Shadows of Amn |
| | Grand Theft Auto: San Andreas |
| | The Legend of Zelda Collector's Edition |
| | The Legend of Zelda: A Link to the Past |
| | The Legend of Zelda: Majora's Mask |
| | The Last of Us |
| | The Last of Us Remastered |
| | Portal 2 |
| | Red Dead Redemption |
| | Final Fantasy IX |
| | God of War |
| | The Legend of Zelda: Ocarina of Tim |
| | Metal Gear Solid |
| | Grim Fandango |
| | Tom Clancy's Splinter Cell Chaos The |
| | |

| | _id String | avg_score Double |
|----|---------------------------------|------------------|
| 1 | "GrimGrimoire" | 9.8 |
| 2 | "Metal Torrent" | 9.7 |
| 3 | "Tengami" | 9.7 |
| 4 | "Diaries of a Spaceport Janitor | 9.7 |
| 5 | "Ghost Trick: Phantom Detective | 9.7 |
| 6 | "Z.H.P. Unlosing Ranger vs Dark | 9.7 |
| 7 | "Crystar" | 9.6 |
| 8 | "Part Time UFO" | 9.6 |
| 9 | "The Witcher 3: Wild Hunt" | 9.2666666666666 |
| 10 | "Ghost of Tsushima" | 9.2 |
| 11 | "Deus Ex" | 9.2 |
| 12 | "Metroid Prime" | 9.2 |
| 13 | "Xenoblade Chronicles" | 9.2 |
| 14 | "Suikoden II" | 9.2 |
| 15 | "The Legend of Zelda: Majora's | 9.2 |
| 16 | "Portal" | 9.2 |
| 17 | "Warcraft III: The Frozen Thron | 9.2 |
| 18 | "The Witcher 3: Wild Hunt - Blo | 9.2 |
| 19 | "Warcraft III: Reign of Chaos" | 9.2 |
| 20 | "Super Mario 64" | 9.2 |

5. Top 20 de juegos que tienen mayor cantidad de críticas con su suma.

SQL:

SELECT name, sum(critics) AS total_critics FROM critics_data GROUP BY name ORDER BY total_critics desc LIMIT 20;

MongoDB:

```
[{$project: {
    name: 1,
    critics: 1,
    _id: 0
}}, {$match: {
    critics: {
        $exists: true
    }
}}, {$group: {
    _id: '$name',
```

```
total_critics: {
    $sum: '$critics'
}
}}, {$sort: {
   total_critics: -1
}}, {$limit: 20}]
```

| | name | total_critics |
|---|--------------------------------|---------------|
| Þ | Grand Theft Auto V | 245 |
| | Mass Effect 2 | 215 |
| | God of War | 193 |
| | Fallout 3 | 189 |
| | The Elder Scrolls IV: Oblivion | 189 |
| | Grand Theft Auto: San Andreas | 185 |
| | BioShock | 183 |
| | Batman: Arkham Asylum | 177 |
| | Shadow of the Colossus | 177 |
| | Red Dead Redemption 2 | 176 |
| | Portal 2 | 172 |
| | Red Dead Redemption | 169 |
| | Call of Duty: Modern Warfare 2 | 167 |
| | Grand Theft Auto: Chinatown | 162 |
| | Street Fighter IV | 161 161 |
| | Batman: Arkham City | 156 |
| | Call of Duty 4: Modern Warfare | 154 |
| | Assassin's Creed II | 152 |
| | Grand Theft Auto IV | 150 |
| | The Elder Scrolls V: Skyrim | 137 |

| | _id String | total_critics Int32 |
|----|---------------------------------|---------------------|
| 1 | "Spider-Man 2" | 252 |
| 2 | "Grand Theft Auto V" | 245 |
| 3 | "Resident Evil 5" | 237 |
| 4 | "L.A. Noire" | 237 |
| 5 | "Marvel: Ultimate Alliance" | 230 |
| 6 | "Madden NFL 07" | 226 |
| 7 | "X-Men: The Official Game" | 224 |
| 8 | "DOOM" | 222 |
| 9 | "Ghostbusters: The Video Game" | 221 |
| 10 | "Resident Evil: Revelations" | 220 |
| 11 | "Final Fantasy XIII" | 220 |
| 12 | "Mass Effect 2" | 215 |
| 13 | "Call of Duty: Black Ops" | 214 |
| 14 | "Tomb Raider: Legend" | 211 |
| 15 | "Prey" | 208 |
| 16 | "Peter Jackson's King Kong: The | 208 |
| 17 | "Call of Duty: Modern Warfare 2 | 207 |
| 18 | "Tiger Woods PGA Tour 07" | 204 |
| 19 | "Destroy All Humans!" | 204 |
| 20 | "Gun" | 202 |

6. Cantidad de juegos dependiendo del género que son.

SQL:

SELECT genre, count(*) AS numero_juegos_genero from critics_data GROUP BY genre ORDER BY numero_juegos_genero desc;

MongoDB:

```
[{$group: {
    _id: '$genre',
    genre: {
    $sum: 1
  }
}}, {$sort: {
    genre: -1
}}]
```

| | genre | numero_juegos_genero |
|---|---|----------------------|
| • | Sports,Traditional,Football,Sim | 24 |
| | Action, Shooter, Shooter, First-Person, Sci-Fi, Sci | 24 |
| | Action,Platformer,2D | 20 |
| | Action Adventure,Fantasy | 18 |
| | Action,Platformer,3D | 17 |
| | Sports,Alternative,Skateboarding | 12 |
| | Action Adventure, Modern | 12 |
| | Role-Playing,Console-style RPG | 12 |
| | Action,Platformer,Platformer,2D,2D | 11 |
| | Role-Playing, Action RPG | 10 |
| | Action,Fighting,3D | 9 |
| | Action,Shooter,First-Person,Sci-Fi | 9 |
| | Role-Playing, First-Person, First-Person, Western | 9 |
| | Action, Shooter, Shooter, First-Person, Modern, M | 9 |
| | Action, Miscellaneous, Rhythm, Music, Music | 9 |
| | Action Adventure, Modern, Modern, Open-World | 8 |
| | Role-Playing, Action RPG, Action RPG | 7 |
| | Action RPG,Role-Playing,Action RPG | 7 |
| | Action Adventure, Horror | 6 |
| | Driving,Racing,GT / Street | 6 |
| | Action,Fighting,Fighting,3D,2D,3D | 6 |
| | Action Adventure,Fantasy,Fantasy,Open-World | 5 |
| | Role-Playing, Japanese-Style | 5 |
| | Sports,Alternative,Snowboarding | 5 |
| | Sports,Traditional,Team,Soccer,Sim,Sim | 5 |
| | Action Adventure, Fantasy, General, Fantasy | 5 |
| | Action Adventure,Open-World | 4 |
| | Role-Plaving.PC-style RPG.PC-style RPG.Weste | 4 |



7. Cantidad de usuarios que criticaron un juego según su género.

SQL:

SELECT genre, sum(users) AS total_users FROM critics_data GROUP BY genre ORDER BY total_users desc;

```
MongoDB:

[{$project: {
  genre: 1,
  users: 1,
  _id: 0
}}, {$match: {
  users: {
  $exists: true
  }
}}, {$group: {
  id: '$genre',
```

```
total_users: {
  $sum: '$users'
}
}}, {$sort: {
  total_users: -1
}}]
```

| | genre | total_users |
|---|---|-------------|
| • | General, Action Adventure, Survival | 146262 |
| | Action, Shooter, Shooter, First-Person, Sci-Fi, Sci | 69201 |
| | Action RPG,Role-Playing,Action RPG | 44500 |
| | Action Adventure,Open-World | 36920 |
| | Role-Playing, First-Person, First-Person, Western | 30341 |
| | Action Adventure,Linear | 17228 |
| | Action Adventure,Fantasy | 16812 |
| | Role-Playing, Action RPG, Action RPG | 16648 |
| | Action Adventure, Modern, Modern, Open-World | 14814 |
| | Action Adventure, General, Modern | 14563 |
| | Action, Shooter, Shooter, First-Person, Modern, M | 14251 |
| | Modern, Action Adventure, Modern, Open-World | 14056 |
| | Action,Platformer,3D | 13852 |
| | General, Modern, Action Adventure, Linear | 12333 |
| | Modern, Adventure, General, Action Adventure, | 11982 |
| | General, Fantasy, MOBA, Strategy, Real-Time, MO | 11474 |
| | Action Adventure, Modern, Modern, Linear | 11327 |
| | Action Adventure, Modern | 10583 |
| | Fantasy,Role-Playing,Action Adventure,Genera | 10394 |
| | Role-Playing, Action RPG | 9942 |
| | Action Adventure, Modern, Open-World | 9704 |
| | Action Adventure, Modern, General, Modern | 9332 |
| | Role-Playing, Console-style RPG | 9310 |
| | Role-Playing, Japanese-Style | 8989 |
| | Action Adventure,Fantasy,Fantasy,Open-World | 8733 |
| | Action, Shooter, Shooter, Third-Person, Sci-Fi, Sci | 8254 |
| | Action,Platformer,2D | 7724 |
| | Role-Playing,PC-style RPG,PC-style RPG,Weste | 7180 |
| | Le il i e i e i e | |

| | _id String | total_users Int32 |
|----|------------------------------------|-------------------|
| 1 | "General, Action Adventure, Survi | 146568 |
| 2 | "Action, Shooter, Shooter, First-P | 135983 |
| 3 | "Action Adventure,Open-World" | 93291 |
| 4 | "Role-Playing, Action RPG" | 91013 |
| 5 | "Action, Shooter, Shooter, First-P | 85815 |
| 6 | "Role-Playing, Action RPG, Action | 80570 |
| 7 | "Action, Shooter, First-Person, Ar | 72337 |
| 8 | "Action RPG,Role-Playing,Action | 63377 |
| 9 | "Action Adventure, General" | 57699 |
| 10 | "Action, Shooter, First-Person, Ta | 42287 |
| 11 | "Action,Platformer,2D" | 40763 |
| 12 | "Role-Playing,First-Person,Firs | 36207 |
| 13 | "Strategy,Real-Time,General" | 34828 |
| 14 | "Action, General" | 34638 |
| 15 | "Action,Platformer,3D" | 31556 |
| 16 | "Action Adventure,Survival" | 30591 |
| 17 | "Action Adventure, Historic, Hist | 30065 |
| 18 | "Action Adventure, Modern, Modern | 29749 |
| 19 | "Role-Playing, Western-Style" | 27843 |
| 20 | "Action,Platformer,Platformer,2 | 25901 |

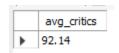
8. Calificación (critica) promedio de todos los juegos.

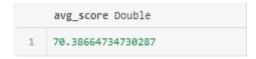
SQL:

```
SELECT ROUND(AVG(score),2) AS avg_critics FROM critics_data;
```

MongoDB:

```
[{$project: {
    _id: 0,
    score: 1
}}, {$group: {
    _id: null,
    avg_score: {
    $avg: '$score'
}
}}]
```





9. Juegos que están arriba del promedio de la calificación de crítica.

SQL:

SELECT name FROM critics_data WHERE score >= (SELECT ROUND(AVG(score),2) AS promedio_critica FROM critics_data) GROUP BY name;

MongoDB:

```
[{$group: {
    _id: '$name',
    avg_score: {
    $avg: '$score'
    }
}}, {$sort: {
    avg_score: -1
}}, {$match: {
    avg_score: {
    $gte: 70.38664734730287
}
}}]
```

| | name |
|---|---|
| Þ | The Legend of Zelda: Ocarina of Time |
| | Tony Hawk's Pro Skater 2 |
| | Grand Theft Auto IV |
| | SoulCalibur |
| | Super Mario Galaxy |
| | Super Mario Galaxy 2 |
| | Red Dead Redemption 2 |
| | Grand Theft Auto V |
| | The Legend of Zelda: Breath of the Wild |
| | Tony Hawk's Pro Skater 3 |
| | Perfect Dark |
| | Metroid Prime |
| | Grand Theft Auto III |
| | Super Mario Odyssey |
| | Halo: Combat Evolved |
| | NFL 2K1 |
| | Half-Life 2 |
| | BioShock |
| | GoldenEye 007 |
| | Uncharted 2: Among Thieves |
| | Resident Evil 4 |
| | The Orange Box |
| | Batman: Arkham City |
| | Tekken 3 |
| | Mass Effect 2 |
| | The Legend of Zelda: Twilight Princess |
| | The Elder Scrolls V: Skyrim |
| | Half-Life |
| | The Legend of Zelda: The Wind Waker |
| | Gran Turismo |

| | _id String | avg_score Double |
|----|---------------------------------|------------------|
| 1 | "The Legend of Zelda: Ocarina o | 99 |
| 2 | "Super Mario Galaxy 2" | 97 |
| 3 | "NFL 2K1" | 97 |
| 4 | "Super Mario Galaxy" | 97 |
| 5 | "Metroid Prime" | 97 |
| 6 | "Super Mario Odyssey" | 97 |
| 7 | "Grand Theft Auto V" | 96.8 |
| 8 | "The Legend of Zelda: Breath of | 96.5 |
| 9 | "Tekken 3" | 96 |
| 10 | "Grand Theft Auto Double Pack" | 96 |
| 11 | "Metal Gear Solid 2: Sons of Li | 96 |
| 12 | "The Legend of Zelda: The Wind | 96 |
| 13 | "Gran Turismo" | 96 |
| 14 | "Uncharted 2: Among Thieves" | 96 |
| 15 | "Red Dead Redemption 2" | 95.6666666666667 |
| 16 | "The Legend of Zelda: Twilight | 95.5 |
| 17 | "Grand Theft Auto IV" | 95.3333333333333 |
| 18 | "BioShock" | 95.3333333333333 |
| 19 | "Persona 5 Royal" | 95 |
| 20 | "Portal 2" | 95 |

10. Cantidad de juegos que están arriba del promedio de la calificacion de la critica según su género.

SQL:

```
SELECT genre, count(*) AS numero_juegos_genero FROM critics_data WHERE score
>= (SELECT ROUND(AVG(score),2) AS promedio_critica FROM critics_data)
```

GROUP BY genre ORDER BY numero juegos genero desc;

```
MongoDB:
[{$project: {
genre: 1,
score: 1,
_id: 0
}}, {$match: {
score: {
$gte: 70.38664734730287
}}, {$group: {
_id: '$genre',
number_games: {
$sum: 1
}
}}, {$sort: {
number_games: -1
}}]
```

| | genre | numero_juegos_genero |
|---|---|----------------------|
| • | Action, Shooter, Shooter, First-Person, Sci-Fi, Sci | 14 |
| | Action Adventure,Fantasy | 11 |
| | Action Adventure, Modern | 10 |
| | Sports,Traditional,Football,Sim | 7 |
| | Sports,Alternative,Skateboarding | 6 |
| | Action Adventure, Modern, Modern, Open-World | 6 |
| | Role-Playing, Action RPG, Action RPG | 6 |
| | Role-Playing, First-Person, First-Person, Western | 6 |
| | Action,Fighting,3D | 5 |
| | Action, Shooter, First-Person, Sci-Fi | 5 |
| | Action,Platformer,2D | 5 |
| | Action Adventure,Open-World | 4 |
| | Action, Shooter, Shooter, First-Person, Modern, M | 4 |
| | Role-Playing,Console-style RPG | 4 |
| | Driving,Racing,GT / Street | 4 |
| | Modern, Action Adventure, Modern, Open-World | 3 |
| | Action,Platformer,3D | 3 |
| | Role-Playing, Japanese-Style | 3 |
| | Action,Fighting,Fighting,3D,2D,3D | 3 |
| | Action,Platformer,Platformer,3D,3D | 2 |
| | Action Adventure, Modern, Open-World | 2 |
| | Action Adventure, Fantasy, General, Fantasy, Op | 2 |
| | Action Adventure, Horror | 2 |
| | Action, Miscellaneous, Shooter, Compilation, First | 2 |
| | Action Adventure,Fantasy,Fantasy,Open-World | 2 |
| | Action, Shooter, Shooter, Third-Person, Sci-Fi, Sci | 2 |
| | Driving,Racing,Arcade | 2 |
| | Action,Fighting,2D | 2 |
| | Action,Platformer,Platformer,2D,2D | 2 |
| | Sports,Alternative,Snowboarding | 2 |
| | Sports,Traditional,Soccer,Sim | 2 |
| | County Traditional Desirability Con | 2 |

| | _id String | number_games Int32 |
|----|------------------------------------|--------------------|
| 1 | "Action,Platformer,2D" | 350 |
| 2 | "Role-Playing, Action RPG" | 246 |
| 3 | "Action Adventure, General" | 230 |
| 4 | "Adventure, General" | 181 |
| 5 | "Action, General" | 154 |
| 6 | "Miscellaneous, Compilation" | 154 |
| 7 | "Action,Platformer,Platformer,2 | 154 |
| 8 | "Action, Shooter, Shooter, First-P | 144 |
| 9 | "Action,Platformer,3D" | 127 |
| 10 | "Action, Shooter, First-Person, Ar | 127 |
| 11 | "Role-Playing, Action RPG, Action | 115 |
| 12 | "Action Adventure,Open-World" | 114 |
| 13 | "Action, Miscellaneous, Rhythm, Mu | 91 |
| 14 | "Role-Playing, Console-style RPG | 90 |
| 15 | "Role-Playing, Japanese-Style" | 85 |
| 16 | "Action, Fighting, 2D" | 84 |
| 17 | "Sports,Traditional,Team,Soccer | 80 |
| 18 | "Adventure, Point-and-Click" | 77 |
| 19 | "Action Adventure,Survival" | 76 |
| 20 | "Action, Fighting, 3D" | 70 |

11. Top 20 con el nombre de juego y desarrollador.

```
SQL:
SELECT name, developer, ROUND(AVG(score),2) AS avg_score FROM critics_data j
INNER JOIN developers d
ON j.developer_id = d.developer_id
GROUP BY name ORDER BY avg_score desc LIMIT 20;
MongoDB:
[{$sort: {
    score: -1
}}, {$limit: 20}, {$project: {
    _id: 0,
    name: 1,
    developer: 1
}}]
```

| | name | developer | avg_score |
|---|--------------------------------------|----------------|-----------|
| • | The Legend of Zelda: Ocarina of Time | Nintendo | 99.00 |
| | SoulCalibur | Namco | 98.00 |
| | Grand Theft Auto IV | RockstarNorth | 98.00 |
| | Super Mario Galaxy | Nintendo | 97.00 |
| | Super Mario Odyssey | Nintendo | 97.00 |
| | NFL 2K1 | VisualConcepts | 97.00 |
| | Metroid Prime | RetroStudios | 97.00 |
| | Super Mario Galaxy 2 | 1EADTokyo | 97.00 |
| | Perfect Dark | RareLtd. | 97.00 |
| | Halo: Combat Evolved | BungieSoftware | 97.00 |
| | Grand Theft Auto V | RockstarNorth | 96.80 |
| | The Legend of Zelda: Breath of the | Nintendo | 96.50 |
| | Resident Evil 4 | Capcom | 96.00 |
| | The Legend of Zelda: The Wind Waker | Nintendo | 96.00 |
| | The Orange Box | ValveSoftware | 96.00 |
| | Half-Life | ValveSoftware | 96.00 |
| | GoldenEye 007 | RareLtd. | 96.00 |
| | Grand Theft Auto Double Pack | RockstarNorth | 96.00 |
| | Tekken 3 | Namco | 96.00 |
| | Uncharted 2: Among Thieves | NaughtyDog | 96.00 |

| | name String | score Int32 | developer String |
|----|---------------------------------|-------------|--------------------------|
| 1 | "The Legend of Zelda: Ocarina o | 99 | "Nintendo" |
| 2 | "Grand Theft Auto IV" | 98 | "RockstarNorth" |
| 3 | "Tony Hawk's Pro Skater 2" | 98 | "NeversoftEntertainment" |
| 4 | "SoulCalibur" | 98 | "Namco" |
| 5 | "Grand Theft Auto IV" | 98 | "RockstarNorth" |
| 6 | "Grand Theft Auto V" | 97 | "RockstarNorth" |
| 7 | "Grand Theft Auto V" | 97 | "RockstarNorth" |
| 8 | "Grand Theft Auto III" | 97 | "DMADesign" |
| 9 | "Grand Theft Auto V" | 97 | "RockstarNorth" |
| 10 | "Super Mario Odyssey" | 97 | "Nintendo" |
| 11 | "Grand Theft Auto V" | 97 | "RockstarNorth" |
| 12 | "Red Dead Redemption 2" | 97 | "RockstarGames" |
| 13 | "Red Dead Redemption 2" | 97 | "RockstarGames" |
| 14 | "Metroid Prime" | 97 | "RetroStudios" |
| 15 | "Tony Hawk's Pro Skater 2" | 97 | "Treyarch" |
| 16 | "Super Mario Galaxy" | 97 | "Nintendo" |
| 17 | "The Legend of Zelda: Breath of | 97 | "Nintendo" |
| 18 | "Tony Hawk's Pro Skater 3" | 97 | "NeversoftEntertainment" |
| 19 | "Super Mario Galaxy 2" | 97 | "NintendoEADTokyo" |
| 20 | "Perfect Dark" | 97 | "RareLtd." |

12. Top 20 de los desarrolladores con más juegos en la lista.

```
SQL:
SELECT developer, count(*) AS juegos_developer FROM critics_data j
INNER JOIN developers d
ON j.developer_id = d.developer_id
GROUP BY developer ORDER BY juegos_developer desc LIMIT 20;

MongoDB:
[{$group: {
    _id: '$developer',
    num_games: {
     $sum: 1
    }
}}, {$sort: {
    num_games: -1
}}, {$limit: 20}]
```

| | developer | juegos_developer |
|---|------------------------|------------------|
| • | Nintendo | 29 |
| | Capcom | 18 |
| | EASports | 17 |
| | RockstarNorth | 14 |
| | VisualConcepts | 14 |
| | ValveSoftware | 14 |
| | BioWare | 12 |
| | BlizzardEntertainment | 11 |
| | NeversoftEntertainment | 10 |
| | HarmonixMusicSystems | 10 |
| | UbisoftMontreal | 9 |
| | NaughtyDog | 8 |
| | RareLtd. | 7 |
| | EATiburon | 7 |
| | Namco | 6 |
| | CDProjektRedStudio | 6 |
| | InfinityWard | 6 |
| | RocksteadyStudios | 6 |
| | BethesdaGameStudios | 6 |
| | KCET | 6 |

| | _id String | num_games Int32 |
|----|--------------------|-----------------|
| 1 | "Capcom" | 298 |
| 2 | "TelltaleGames" | 236 |
| 3 | "EASports" | 195 |
| 4 | "Konami" | 176 |
| 5 | "EACanada" | 172 |
| 6 | "UbisoftMontreal" | 146 |
| 7 | "Nintendo" | 142 |
| 8 | "Ubisoft" | 136 |
| 9 | "SquareEnix" | 107 |
| 10 | "ElectronicArts" | 101 |
| 11 | "Codemasters" | 100 |
| 12 | "EATiburon" | 100 |
| 13 | "OmegaForce" | 94 |
| 14 | "VisualConcepts" | 87 |
| 15 | "Traveller'sTales" | 82 |
| 16 | "VicariousVisions" | 74 |
| 17 | "Sega" | 72 |
| 18 | "Namco" | 67 |
| 19 | "FromSoftware" | 65 |
| 20 | "Midway" | 65 |
| | | |

13. Cantidad de juegos en la lista según su consola.

```
SQL:

SELECT platform, count(*) AS juegos_consola FROM critics_data j
INNER JOIN platforms p

ON j.platform_id = p.platform_id

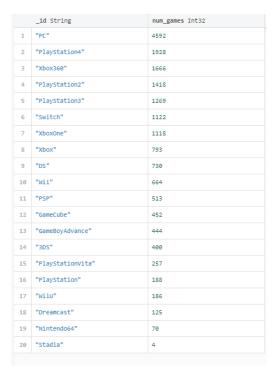
GROUP BY platform ORDER BY juegos_consola desc;

MongoDB:

[{$group: {
    _id: '$platform',
    num_games: {
    $sum: 1
    }

}}, {$sort: {
    num_games: -1
}}
```

| | | - |
|---|--------------|----------------|
| | platform | juegos_consola |
| • | PC | 113 |
| | PlayStation2 | 56 |
| | Xbox360 | 51 |
| | PlayStation3 | 47 |
| | PlayStation4 | 30 |
| | Xbox | 30 |
| | PlayStation | 25 |
| | GameCube | 25 |
| | XboxOne | 20 |
| | Switch | 19 |
| | Nintendo64 | 15 |
| | Dreamcast | 15 |
| | Wii | 14 |
| | GameBoyA | 14 |
| | WiiU | 7 |
| | DS | 7 |
| | 3DS | 6 |
| | PlayStation | 2 |
| | PSP | 2 |
| | | |



14. Los 20 desarrolladores con mayor cantidad de criticas por los usuarios.

```
SQL:

SELECT developer, sum(users) AS total_criticas FROM critics_data j
INNER JOIN developers d

ON j.developer_id = d.developer_id

GROUP BY developer ORDER BY total_criticas desc LIMIT 20;

MongoDB:

[{$sort: {
    users: -1
    }}, {$limit: 20}, {$project: {
    _id: 0,
        developer: 1,
        users: 1
    }}]
```

| | developer | total_criticas |
|---|-----------------------|----------------|
| • | NaughtyDog | 197638 |
| | Nintendo | 57884 |
| | ValveSoftware | 55590 |
| | CDProjektRedStudio | 44517 |
| | RockstarNorth | 39134 |
| | BioWare | 26909 |
| | BethesdaGameStudios | 25343 |
| | BlizzardEntertainment | 23474 |
| | SCESantaMonica | 22496 |
| | RockstarGames | 21047 |
| | FromSoftware | 16094 |
| | IrrationalGames | 12837 |
| | InfinityWard | 12188 |
| | RocksteadyStudios | 12061 |
| | Capcom | 10225 |
| | Atlus | 9010 |
| | EpicGames | 8783 |
| | UbisoftMontreal | 8401 |
| | IrrationalGames,2KM | 7386 |
| | KojimaProductions,M | 6756 |

| | developer String | users Int32 |
|----|-------------------------|-------------|
| 1 | "NaughtyDog" | 146262 |
| 2 | "BlizzardEntertainment" | 30532 |
| 3 | "CDProjektRedStudio" | 17537 |
| 4 | "SuckerPunch" | 17420 |
| 5 | "KojimaProductions" | 16949 |
| 6 | "SCESantaMonica" | 16298 |
| 7 | "Nintendo" | 15873 |
| 8 | "CDProjektRedStudio" | 15749 |
| 9 | "NaughtyDog" | 14563 |
| 10 | "RockstarGames" | 14315 |
| 11 | "NaughtyDog" | 12333 |
| 12 | "NaughtyDog" | 11982 |
| 13 | "ValveSoftware" | 11474 |
| 14 | "BethesdaGameStudios" | 11301 |
| 15 | "ValveSoftware" | 10773 |
| 16 | "FromSoftware" | 10394 |
| 17 | "ValveSoftware" | 10108 |
| 18 | "BlizzardEntertainment" | 9774 |
| 19 | "Guerrilla" | 9400 |
| 20 | "InfinityWard" | 9134 |

15. Numero de criticas de usuarios por consola.

```
SQL:
SELECT platform, sum(users) AS total_criticas FROM critics_data j
INNER JOIN platforms p
ON j.platform_id = p.platform_id
GROUP BY platform ORDER BY total_criticas desc;
MongoDB:
[{$project: {
platform: 1,
users: 1,
_id: 0
}}, {$group: {
_id: '$platform',
total_users: {
 $sum: '$users'
}
}}, {$sort: {
total_users: -1
}}]
```

| | platform | total_criticas |
|---|--------------|----------------|
| • | PlayStation4 | 270945 |
| | PC | 228388 |
| | PlayStation3 | 82444 |
| | Xbox360 | 68249 |
| | Switch | 37360 |
| | PlayStation2 | 25476 |
| | XboxOne | 19440 |
| | Wii | 15799 |
| | Nintendo64 | 11471 |
| | PlayStation | 10992 |
| | WiiU | 9732 |
| | GameCube | 9002 |
| | Xbox | 6481 |
| | 3DS | 6332 |
| | GameBoyA | 2958 |
| | DS | 2803 |
| | PlayStation | 1852 |
| | Dreamcast | 1059 |
| | PSP | 1018 |

| _id String | | total_users Int32 |
|------------|-------------------|-------------------|
| 1 | "PC" | 1217253 |
| 2 | "PlayStation4" | 762422 |
| 3 | "PlayStation3" | 243150 |
| 4 | "Xbox360" | 235943 |
| 5 | "Xbox0ne" | 149161 |
| 6 | "Switch" | 118772 |
| 7 | "PlayStation2" | 84161 |
| 8 | "3DS" | 45975 |
| 9 | "Wii" | 40576 |
| 10 | "WiiU" | 37559 |
| 11 | "DS" | 30413 |
| 12 | "PlayStationVita" | 22755 |
| 13 | "GameCube" | 21249 |
| 14 | "PlayStation" | 21143 |
| 15 | "PSP" | 19787 |
| 16 | "Xbox" | 19284 |
| 17 | "Nintendo64" | 15032 |
| 18 | "GameBoyAdvance" | 12599 |
| 19 | "Dreamcast" | 3412 |
| 20 | "Stadia" | 41 |

16. Cantidad de criticas de usuarios por compañía.

```
SQL:
SELECT company, sum(users) AS total_criticas FROM critics_data j
INNER JOIN platforms p
ON j.platform_id = p.platform_id
GROUP BY company ORDER BY total_criticas desc;
MongoDB: [{$lookup: {
from: 'platforms',
localField: 'platform',
foreignField: 'platform',
as: 'consolesandcompanies'
}}, {$addFields: {
consolesandcompanies_object: {
 $arrayElemAt: [
 '$consolesandcompanies',
 0
 ]
}
}}, {$addFields: {
company: '$consolesandcompanies_object.company'
}}, {$match: {
company: {
 $exists: true
}
}}, {$group: {
_id: '$company',
total_users: {
```

```
$sum: '$users'
}

}}, {$sort: {

total_users: -1
}}]
```

| | company | total_criticas |
|---|-----------|----------------|
| • | Sony | 392727 |
| | Desktop | 228388 |
| | Nintendo | 95457 |
| | Microsoft | 94170 |
| | SEGA | 1059 |

| ₩ q1616 | | | | |
|---------|-------------|-------------------|--|--|
| | _id String | total_users Int32 | | |
| 1 | "Desktop" | 1217294 | | |
| 2 | "Sony" | 1153418 | | |
| 3 | "Microsoft" | 404388 | | |
| 4 | "Nintendo" | 322175 | | |
| 5 | "SEGA" | 3412 | | |

5. Conclusiones.

- Estos datos, ya con su debido análisis, puede predecir si un juego de distinto desarrollador o compañía puede crear un buen videojuego según la crítica o los jugadores (usuarios).
- Estos datos también pueden demostrar qué consola tiene el mejor catálogo de videojuegos.
- El uso de SQL resulta ser más intuitivo, sistematizado y sencillo, pero el uso de MySQL Workbench resulta ser menos eficiente al momento de exportar gran cantidad de datos. Se espera en un futuro hacer estas mismas consultas en otro ambiente como SQL Server sin necesidad de recortar los datos.
- El uso de MongoDB, al contrario de MySQL Workbench, resulta ser más efectivo cuando se necesita exportar gran cantidad de datos. Su mayor defecto es que resulta ser más complicado el usar datos de los mismos documentos para hacer comparaciones en las búsquedas. Un problema que tuve fue que no pude usar un número extraído de una vista (un promedio) para usarlo como un filtro, llegando a funcionar cuando pongo el número, más no el nombre de la constante.

6. Glosario.

Critics_data:

- Id (int): Número de identificación del juego. Es la llave primaria.
- Name (varchar): Nombre del juego.
- Platform (tinyint): Identificador de la consola el juego.
- R-date (varchar): Fecha de lanzamiento del juego.
- Score (tinyint): Calificación del juego por la critica.
- User_score (float): Calificación del juego por los usuarios.
- **Developer (tinyint):** Identificador del desarrollador.
- Genre (varchar): Genero del juego.
- **Players (varchar):** Número de jugadores, o si el juego contiene o no multiplayer en línea.
- Critics (tinyint): Número de criticas que se le hicieron al juego.
- Users (int): Número de usuarios que criticaron el juego.

Developers:

- **Id (int):** Número de identificador del desarrollador. Es la llave primaria y llave externa de la tabla critics_data.
- Developer (varchar): Nombre del desarrollador.

Platform:

- **Id (int):** Número de identificación de la consola. Es la llave primaria y llave externa de la tabla critics data.
- Platform (varchar): Nombre de la consola.