STRANGER THINGS 4

# Tables -

## Characters -

| | A | B | C | D | E | F | G | H | I | J | K |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | character_id | name | age | occupation | hometown | introduction | | | | | |
| 2 | 1 | Eleven | 15 | Former Lab Subject | Hawkins | Mysterious girl with telekinetic powers. | | | | | |
| 3 | 2 | Mike Wheeler | 16 | Student | Hawkins | Leader of the group and Eleven's love interest. | | | | | |
| 4 | 3 | Dustin Henderson | 16 | Student | Hawkins | Smart and witty member of the group. | | | | | |
| 5 | 4 | Lucas Sinclair | 16 | Student | Hawkins | Skilled with a slingshot and skeptical member. | | | | | |
| 6 | 5 | Will Byers | 16 | Student | Hawkins | Went missing in Season 1 and has supernatural connections. | | | | | |
| 7 | 6 | Joyce Byers | 42 | Retail Clerk | Hawkins | Mother of Will and Jonathan. | | | | | |
| 8 | 7 | Jim Hopper | 45 | Chief of Police | Hawkins | Protector of the town and Eleven. | | | | | |
| 9 | 8 | Steve Harrington | 18 | Former Babysitter | Hawkins | Transformed from a popular kid to a hero. | | | | | |
| 10 | 9 | Jonathan Byers | 19 | Photographer | Hawkins | Will's older brother and a close friend of Nancy. | | | | | |
| 11 | 10 | Nancy Wheeler | 17 | Student | Hawkins | Mike's older sister and investigator of strange occurrences. | | | | | |

# Locations -

| | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| 1 | location_id | name | type | description | latitude | longitude |
| 2 | 1 | Hawkins High School | School | The local high school attended by the main characters. | 40.0401 | -82.4629 |
| 3 | 2 | Starcourt Mall | Mall | The central mall in Hawkins with various shops and events. | 40.0502 | -82.4611 |
| 4 | 3 | Hawkins National Laboratory | Laboratory | A secretive government facility where experiments take place. | 40.052 | -82.4652 |
| 5 | 4 | Hawkins Public Library | Library | A public library used for research and information gathering. | 40.0459 | -82.4624 |
| 6 | 5 | Byers House | Residence | The home of the Byers family, central to many events. | 40.0477 | -82.4641 |
| 7 | 6 | Wheeler House | Residence | The home of the Wheeler family. | 40.0482 | -82.463 |
| 8 | 7 | Hopper's Cabin | Residence | Jim Hopper's secluded cabin in the woods. | 40.0531 | -82.4598 |
| 9 | 8 | Hawkins Community Pool | Pool | A public pool where characters gather in Season 3. | 40.0465 | -82.4613 |

# Events -

| | A | B | C | D | E | F | G | H | I | J | K |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | event_id | season | episode | event_name | description | | | | | | |
| 2 | 1 | 1 | 1 | Disappearance of Will Byers | Will Byers goes missing, leading to the events of Season 1. | | | | | | |
| 3 | 2 | 1 | 3 | Discovery of Eleven | The boys find Eleven in the woods with mysterious powers. | | | | | | |
| 4 | 3 | 2 | 5 | Demogorgon Attack on School | A terrifying encounter with the Demogorgon at Hawkins High School. | | | | | | |
| 5 | 4 | 2 | 9 | The Mind Flayer | The emergence of the Mind Flayer in Season 2. | | | | | | |
| 6 | 5 | 3 | 1 | The Mall Battle | The climactic battle against the Mind Flayer at Starcourt Mall. | | | | | | |
| 7 | 6 | 1 | 6 | Search for Barb | Nancy and Jonathan search for their missing friend Barb in Season 1. | | | | | | |
| 8 | 7 | 2 | 2 | The Upside Down | Exploration of the alternate dimension known as the Upside Down. | | | | | | |
| 9 | 8 | 3 | 8 | Russian Conspiracy | Discovery of a Russian laboratory beneath the mall in Season 3. | | | | | | |

# Relationships -

| | A | B | C | D |
|---|---|---|---|---|
| 1 | relationship_id | character1_id | character2_id | relationship_type |
| 2 | 1 | 1 | 2 | Close Friends |
| 3 | 2 | 1 | 7 | Adoptive Father and Daughter |
| 4 | 3 | 2 | 3 | Friends |
| 5 | 4 | 3 | 4 | Friends |
| 6 | 5 | 5 | 6 | Mother and Son |
| 7 | 6 | 6 | 9 | Siblings |
| 8 | 7 | 9 | 10 | Romantic Relationship |
| 9 | 8 | 4 | 8 | Friends |

# Monsters -

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | monster_id | name | type | abilities | | | |
| 2 | 1 | Demogorgon | Demons | Interdimensional travel, face-opening petal attack | | | |
| 3 | 2 | Mind Flayer | Eldritch Horror | Mind control, ability to possess creatures | | | |
| 4 | 3 | Demodogs | Demons | Ferocious, dog-like creatures under the Mind Flayer's control | | | |
| 5 | 4 | Shadow Monster | Eldritch Horror | Sentient, shadowy entity controlling the Mind Flayer | | | |
| 6 | 5 | Thessalhydra | Demons | Multi-headed creature mentioned in a Dungeons & Dragons game | | | |
| 7 | 6 | Mind Flayer (Baby) | Eldritch Horror | A smaller version of the Mind Flayer | | | |
| 8 | 7 | The Flayed | Humans | Humans infected and controlled by the Mind Flayer | | | |
| 9 | 8 | Polywog | Creatures | A small, slug-like creature that evolves into a Demodog | | | |

# Questions -

- ❏ Retrieve the names of the characters?
- ❏ Find characters with age greater than 18?
- ❏ Find events in Season 2?
- ❏ Get details of the 'Mind Flayer' monster?
- ❏ Retrieve characters and their associated events?
- ❏ Calculate the total number of characters from each hometown?
- ❏ Retrieve characters who were involved in events in Season 1 or Season 2?
- ❏ Find the top 3 oldest characters?
- ❏ Find the average age of characters in Hawkins?
- ❏ Rank characters by age in descending order?

1. Retrieve the names of the characters?

Query -

```sql
select name as 'Character name' from characters;
```

Result -

| Character name |
| --- |
| Eleven |
| Mike Wheeler |
| Dustin Henderson |
| Lucas Sinclair |
| Will Byers |
| Joyce Byers |
| Jim Hopper |
| Steve Harrington |
| Jonathan Byers |
| Nancy Wheeler |

# 2. Find characters with age greater than 18?

Query -

```
select name from characters where age>18;
```

Result -

| name |
| --- |
| Joyce Byers |
| Jim Hopper |
| Jonathan Byers |

# 3. Find events in Season 2?

Query -

```
select event_name, description from events where season=2;
```

Result -

| event_name | description |
|---|---|
| Demogorgon Attack on School | A terrifying encounter with the Demogorgon at … |
| The Mind Flayer | The emergence of the Mind Flayer in Season 2. |
| The Upside Down | Exploration of the alternate dimension known a… |

# 4. Get details of the 'Mind Flayer' monster?

Query -

```sql
select * from monsters where name='Mind Flayer';
```

Result -

| monster_id | name | type | abilities |
|---|---|---|---|
| 2 | Mind Flayer | Eldritch Horror | Mind control, ability to possess creatures |
| NULL | NULL | NULL | NULL |

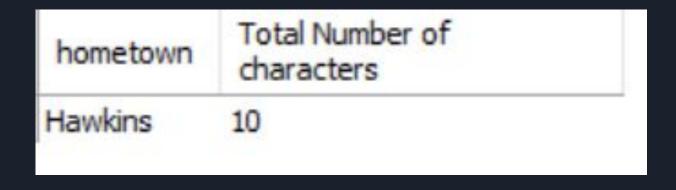# 5. Retrieve characters and their associated events?

Query -

```sql
select c.name as 'Character name', e.event_name
from characters c inner join relationships r
on c.character_id=r.character1_id or c.character_id=r.character2_id
join events e on r.relationship_id=e.event_id;
```

Result -

| Character name | event_name |
|---|---|
| Mike Wheeler | Disappearance of Will Byers |
| Eleven | Disappearance of Will Byers |
| Jim Hopper | Discovery of Eleven |
| Eleven | Discovery of Eleven |
| Dustin Henderson | Demogorgon Attack on School |
| Mike Wheeler | Demogorgon Attack on School |
| Lucas Sinclair | The Mind Flayer |
| Dustin Henderson | The Mind Flayer |
| Joyce Byers | The Mall Battle |
| Will Byers | The Mall Battle |
| Jonathan Byers | Search for Barb |
| Joyce Byers | Search for Barb |
| Nancy Wheeler | The Upside Down |
| Jonathan Byers | The Upside Down |
| Steve Harrington | Russian Conspiracy |
| Lucas Sinclair | Russian Conspiracy |

# 6. Calculate the total number of characters from each hometown?

Query -

```sql
select hometown,count(*) as'Total Number of characters' from characters
group by hometown
order by 2 desc;
```

Result -

| hometown | Total Number of characters |
|----------|---------------------------|
| Hawkins  | 10                        |

# 7. Retrieve characters who were involved in events in Season 1 or Season 2?

Query -

```sql
select c.name as 'Character name'
from characters c inner join relationships r on
c.character_id=r.character1_id or c.character_id=r.character2_id
join events e on r.relationship_id=e.event_id
where e.season in (1,2);
```

Result -

| Character name |
| --- |
| Eleven |
| Mike Wheeler |
| Eleven |
| Jim Hopper |
| Mike Wheeler |
| Dustin Henderson |
| Dustin Henderson |
| Lucas Sinclair |
| Joyce Byers |
| Jonathan Byers |
| Jonathan Byers |
| Nancy Wheeler |

# 8. Find the top 3 oldest characters?

Query -

```
select * from characters order by age desc limit 3;
```

Result -

| character_id | name | age | occupation | hometown | introduction |
|---|---|---|---|---|---|
| 7 | Jim Hopper | 45 | Chief of Police | Hawkins | Protector of the town and Eleven. |
| 6 | Joyce Byers | 42 | Retail Clerk | Hawkins | Mother of Will and Jonathan. |
| 9 | Jonathan Byers | 19 | Photographer | Hawkins | Will's older brother and a close friend of Nancy. |
| NULL | NULL | NULL | NULL | NULL | NULL |

# 9. Find the average age of characters in Hawkins?

Query -

```sql
select round(AVG(age),2) as 'average_age' from characters
where hometown='Hawkins';
```

Result -

| average_age |
|-------------|
| 22.00 |

# 10. Rank characters by age in descending order?

Query -

```
select name as character_name,
dense_rank() over(order by age desc) as age_rank
from characters;
```

Result -

| character_name | age_rank |
|---|---|
| Jim Hopper | 1 |
| Joyce Byers | 2 |
| Jonathan Byers | 3 |
| Steve Harrington | 4 |
| Nancy Wheeler | 5 |
| Mike Wheeler | 6 |
| Dustin Henderson | 6 |
| Lucas Sinclair | 6 |
| Will Byers | 6 |
| Eleven | 7 |