STRANGER THINGS SERIES SQL ANALYSIS

By Anunay Dubey

Project Overview

This project, undertaken as a data challenge by Digits N Data, explores the intricate world of the popular TV series "Stranger Things." The challenge, initiated and facilitated by Nitish Kumar, serves as an opportunity to showcase skills in database design, SQL querying, and data manipulation.

The Stranger Things Database project aims to organize and manage information related to the popular television series "Stranger Things." Leveraging a relational database model, the project Involves tables for characters, locations, events, relationships, and monsters, providing a comprehensive framework for storing and querying essential data.

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TABLES USED

- Characters
- Locations
- Events
- Relationships
- Monsters

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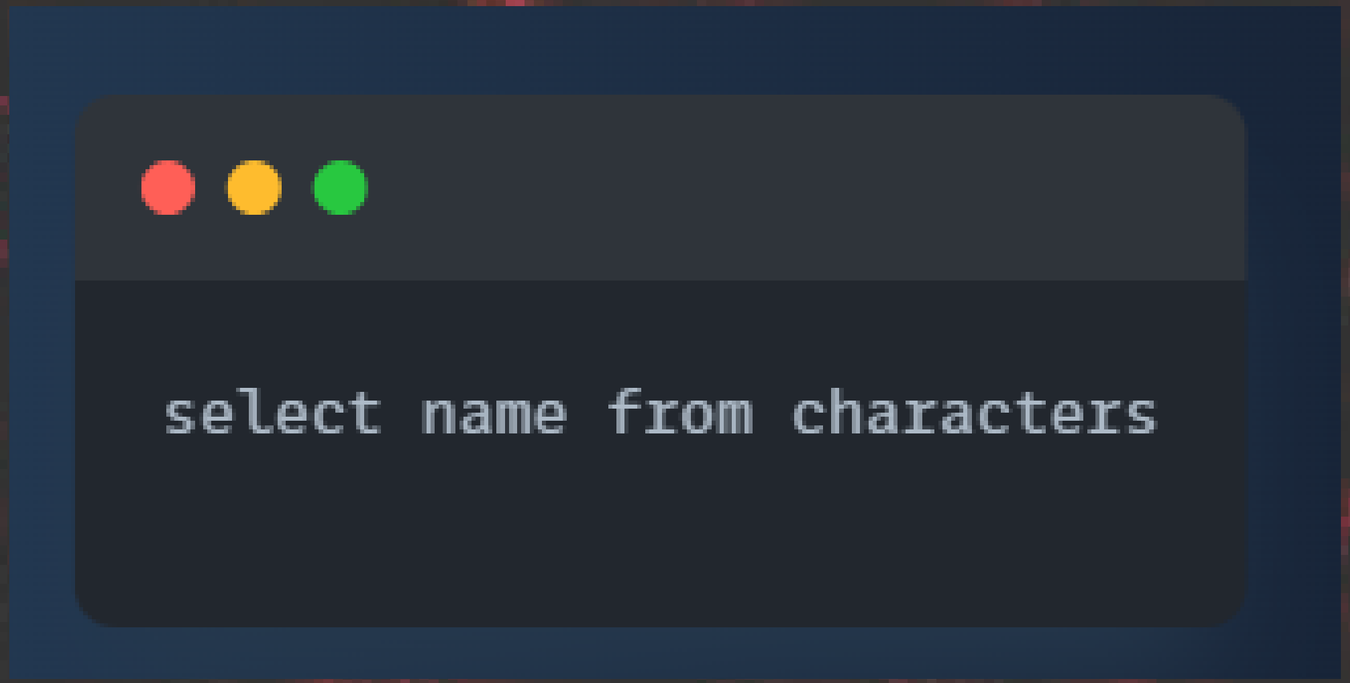
Q1.Retrieve the names of the characters?



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OUTPUT

	name character varying (255)
1	Eleven
2	Mike Wheeler
3	Dustin Henderson
4	Lucas Sinclair
5	Will Byers
6	Joyce Byers
7	Jim Hopper
8	Steve Harrington
9	Jonathan Byers
10	Nancy Wheeler

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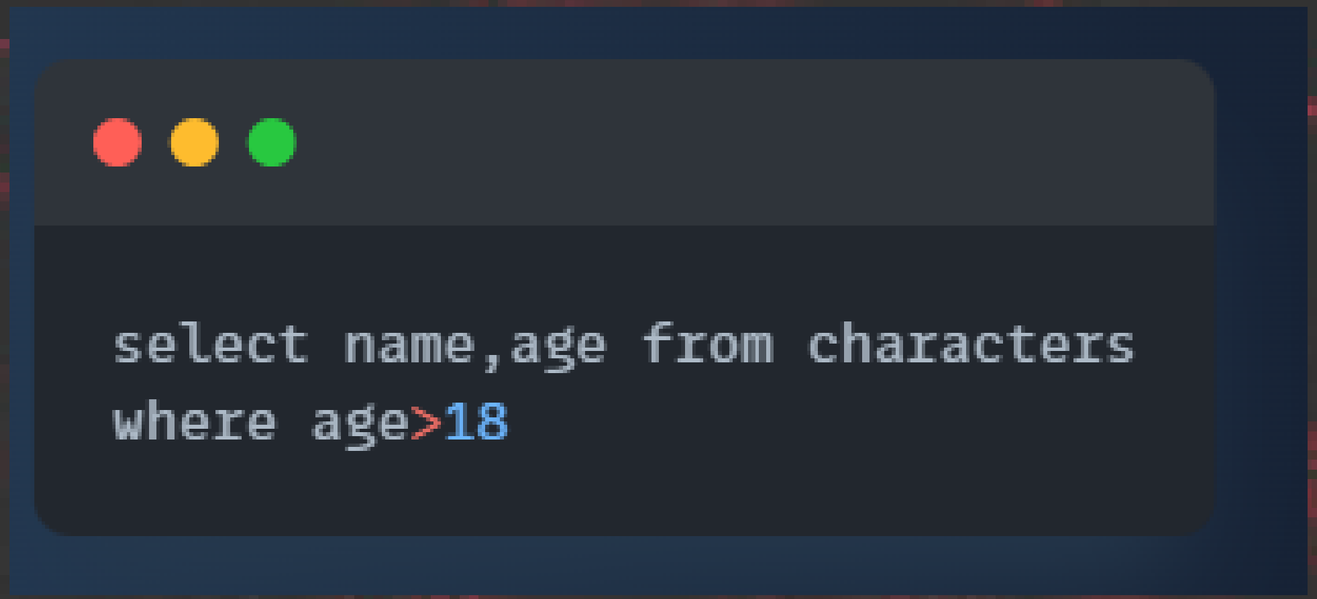
Q2.Find characters with age greater than 18?



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OUTPUT

	name character varying (255)	age integer
1	Joyce Byers	42
2	Jim Hopper	45
3	Jonathan Byers	19

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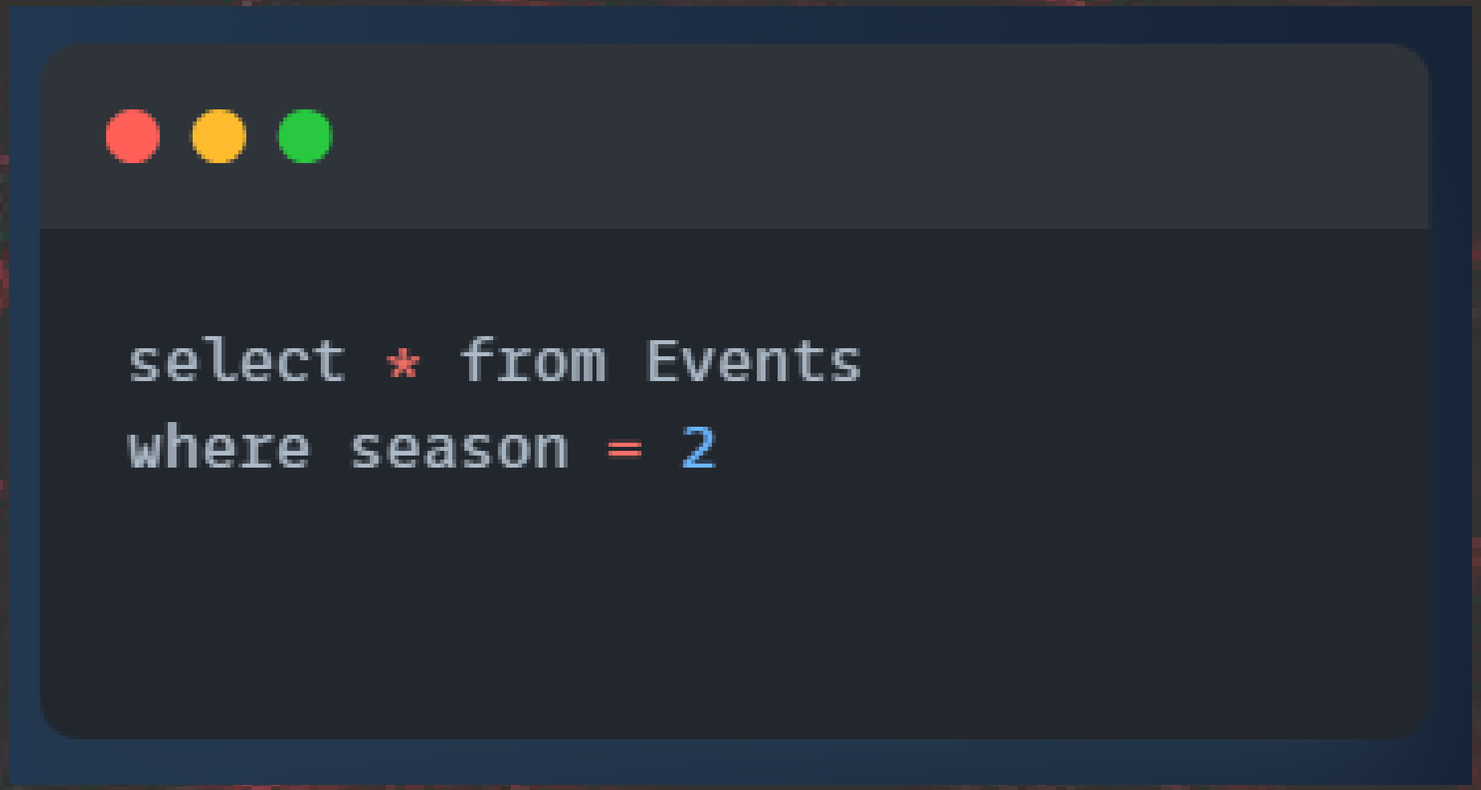
Q3.Find events in Season 2?



```
select * from Events
where season = 2
```

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OUTPUT

season integer	episode integer	event_name character varying (255)	description text
2	5	Demogorgon Attack on School	A terrifying encounter with the Demogorgon at Hawkins High Scho...
2	9	The Mind Flayer	The emergence of the Mind Flayer in Season 2.
2	2	The Upside Down	Exploration of the alternate dimension known as the Upside Down.

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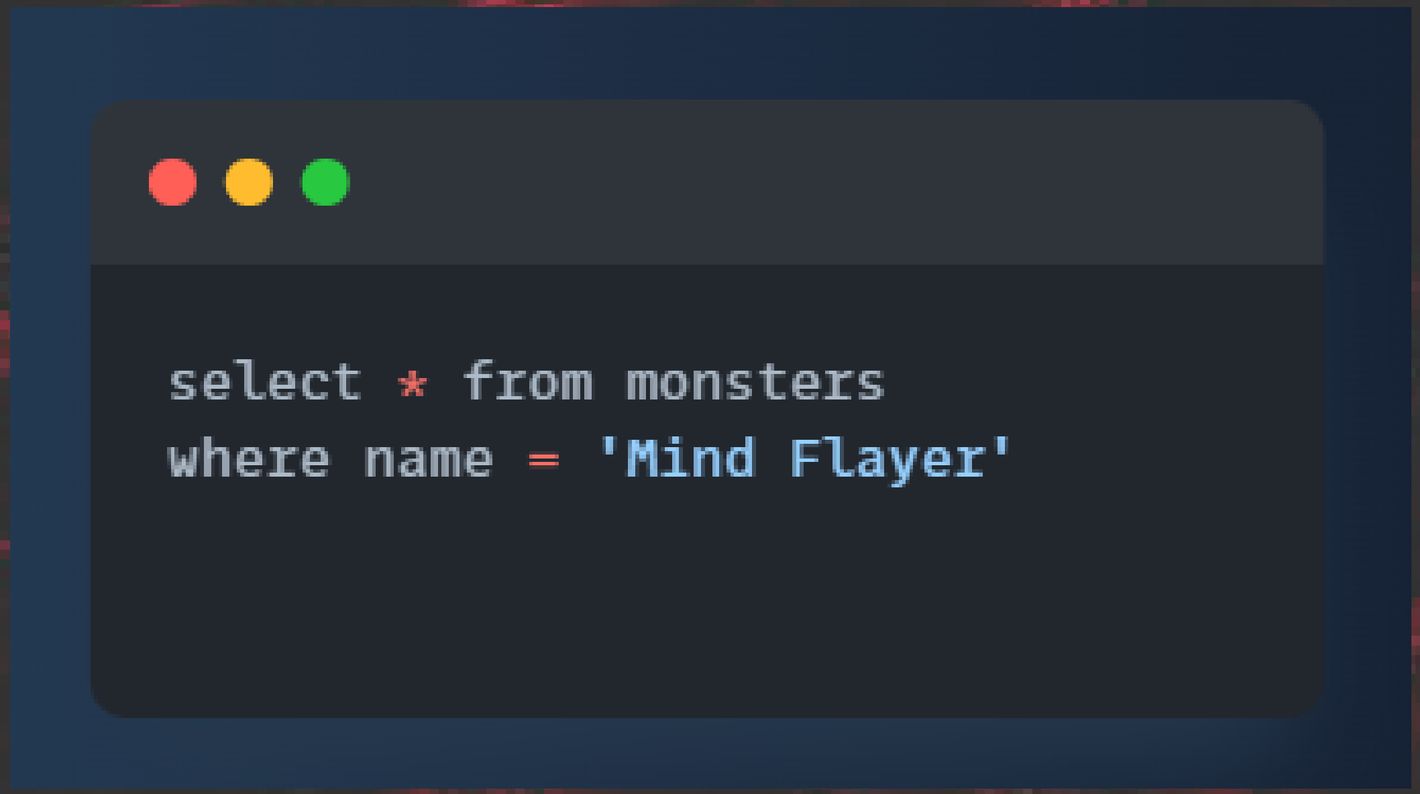
Q4.Get details of the 'Mind Flayer' monster?



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

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OUTPUT

	monster_id [PK] integer	name character varying (255)	type character varying (255)	abilities text
1	2	Mind Flayer	Eldritch Horror	Mind control, ability to possess creatures

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Q5.Retrieve characters and their associated events?

```sql
SELECT
    C.name AS character_name,
    E.event_name,
    E.season,
    E.episode
FROM
    Relationships R
JOIN Characters C ON R.character1_id = C.character_id OR R.character2_id = C.character_id
JOIN Events E ON R.character1_id = E.event_id OR R.character2_id = E.event_id;
```

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OUTPUT

	character_name character varying (255)	event_name character varying (255)	season integer	episode integer
1	Eleven	Disappearance of Will Byers	1	1
2	Mike Wheeler	Disappearance of Will Byers	1	1
3	Eleven	Disappearance of Will Byers	1	1
4	Jim Hopper	Disappearance of Will Byers	1	1
5	Eleven	Discovery of Eleven	1	3
6	Mike Wheeler	Discovery of Eleven	1	3
7	Mike Wheeler	Discovery of Eleven	1	3
8	Dustin Henderson	Discovery of Eleven	1	3
9	Mike Wheeler	Demogorgon Attack on School	2	5
10	Dustin Henderson	Demogorgon Attack on School	2	5

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Q6.Calculate the total number of characters from each hometown?

```
select hometown,count(*) from characters
group by hometown
```

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OUTPUT

	hometown character varying (255)	count bigint
1	Hawkins	10

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Q7.Retrieve characters who were involved in events in Season 1 or Season 2?

```sql
SELECT DISTINCT
    C.name AS character_name
FROM
    Characters C
JOIN Relationships R ON C.character_id = R.character1_id
OR C.character_id = R.character2_id
JOIN Events E ON R.character1_id = E.event_id OR R.character2_id = E.event_id
WHERE
    E.season IN (1, 2);
```

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OUTPUT

	character_name character varying (255)
1	Dustin Henderson
2	Eleven
3	Jim Hopper
4	Jonathan Byers
5	Joyce Byers
6	Lucas Sinclair
7	Mike Wheeler
8	Steve Harrington
9	Will Byers

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Q8.Find the top 3 oldest characters?

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

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OUTPUT

	character_id [PK] integer	name character varying (255)	age integer	occupation character varying (255)	hometown character varying (255)
1	7	Jim Hopper	45	Chief of Police	Hawkins
2	6	Joyce Byers	42	Retail Clerk	Hawkins
3	9	Jonathan Byers	19	Photographer	Hawkins

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Q9.Find the average age of characters in Hawkins?

```sql
SELECT intAVG(age) AS average_age
FROM characters
WHERE hometown = 'Hawkins';
```

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OUTPUT

	average_age numeric
1	22.0000000000000000

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Q10.Rank characters by age in descending order?

```sql
SELECT name, age,
RANK() OVER (ORDER BY age DESC) AS age_rank
FROM characters;
```

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OUTPUT

	name character varying (255)	age integer	age_rank bigint
1	Jim Hopper	45	1
2	Joyce Byers	42	2
3	Jonathan Byers	19	3
4	Steve Harrington	18	4
5	Nancy Wheeler	17	5
6	Will Byers	16	6

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Thank You

Special Thanks to: Data n Digits

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