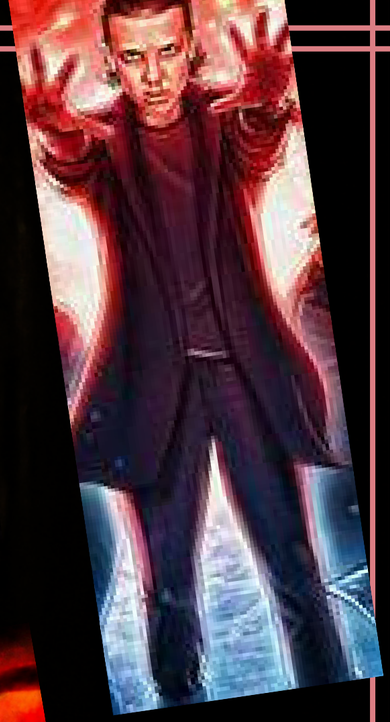
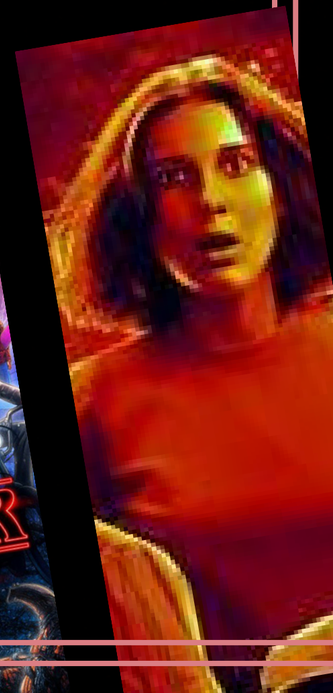
STRANGER THINGS
SQL CHALLENGE

SUBMITTED BY-SIMRANJIT KAUR





1.Retrieve the names of the characters.

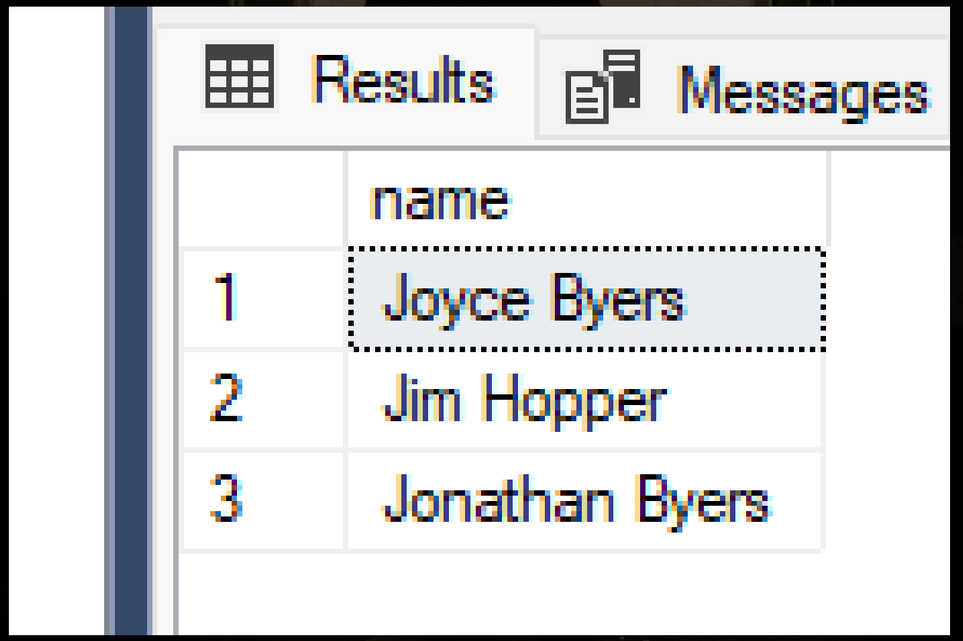
```sql
--1.Retrieve the names of the characters?
Select name as names_of_characters from Characters;
```

Results | Messages

	names_of_characters
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

2. Find characters with age greater than 18.

```
--2.Find characters with age greater than 18.
Select name from Characters where age>18;
```



3. Find events in season 2.

```sql
--3.Find events in Season 2.
Select event_id, event_name from Events where season=2;
```

Results | Messages

	event_id	event_name
1	3	Demogorgon Attack on School
2	4	The Mind Flayer
3	7	The Upside Down

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

```
--4.Get details of the 'Mind Flayer' monster.
Select * from Monsters where name='Mind Flayer';
```

Results | Messages

	monster_id	name	type	abilities
1	2	Mind Flayer	Eldritch Horror	Mind control, ability to possess creatures

5. Retrieve characters and their associated events.

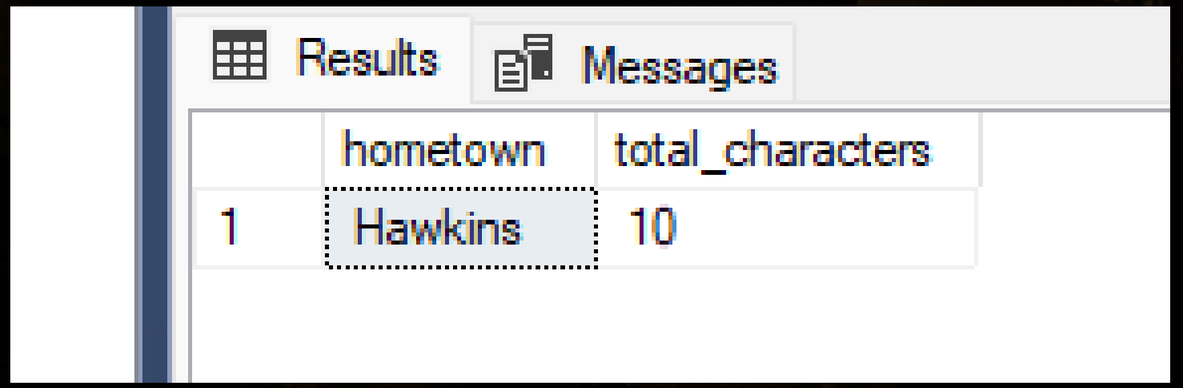
```sql
--5.Retrieve characters and their associated events.
Select  c.character_id,c.name,e.event_name from Characters c join Relationships r
on c.character_id=r.character1_id or c.character_id=r.character2_id
join Events e on r.relationship_id=e.event_id order by c.name;
```

Results | Messages

	character_id	name	event_name
1	3	Dustin Henderson	Demogorgon Attack on School
2	3	Dustin Henderson	The Mind Flayer
3	1	Eleven	Disappearance of Will Byers
4	1	Eleven	Discovery of Eleven
5	7	Jim Hopper	Discovery of Eleven
6	9	Jonathan Byers	Search for Barb
7	9	Jonathan Byers	The Upside Down
8	6	Joyce Byers	The Mall Battle
9	6	Joyce Byers	Search for Barb
10	4	Lucas Sinclair	Russian Conspiracy
11	4	Lucas Sinclair	The Mind Flayer
12	2	Mike Wheeler	Demogorgon Attack on School
13	2	Mike Wheeler	Disappearance of Will Byers
14	10	Nancy Wheeler	The Upside Down
15	8	Steve Harrington	Russian Conspiracy
16	5	Will Byers	The Mall Battle

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

```sql
--6.Calculate the total number of characters from each hometown?
Select hometown, count(*) as total_characters from Characters group by hometown;
```



	hometown	total_characters
1	Hawkins	10

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

```sql
--7.Retrieve characters who were involved in events in Season 1 or Season 2.
Select c.character_id, c.name,e.season 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) order by e.season;
```

Results | Messages

	character_id	name	season
1	1	Eleven	1
2	2	Mike Wheeler	1
3	1	Eleven	1
4	7	Jim Hopper	1
5	1	Eleven	1
6	2	Mike Wheeler	1
7	2	Mike Wheeler	1
8	3	Dustin Henderson	1
9	5	Will Byers	1
10	6	Joyce Byers	1
11	6	Joyce Byers	1
12	9	Jonathan Byers	1
13	1	Eleven	2
14	7	Jim Hopper	2
15	2	Mike Wheeler	2
16	3	Dustin Henderson	2
17	3	Dustin Henderson	2
18	4	Lucas Sinclair	2
19	3	Dustin Henderson	2
20	4	Lucas Sinclair	2
21	4	Lucas Sinclair	2
22	8	Steve Harrington	2

8. Retrieve the top 3 oldest characters.

```sql
--8. Retrieve the top 3 oldest characters.
Select * from (
Select character_id, name, age ,rank() over(order by age desc) as rnk from Characters) as a
where rnk in (1,2,3);
```

Results | Messages

	character_id	name	age	rnk
1	7	Jim Hopper	45	1
2	6	Joyce Byers	42	2
3	9	Jonathan Byers	19	3

9.Find the average age of characters in Hawkins?

```sql
--9.Find the average age of characters in Hawkins?
Select hometown,avg(age) as average_age from Characters
where hometown='Hawkins'
group by hometown;
```

Results | Messages

	hometown	average_age
1	Hawkins	22

10.Rank characters by age in descending order?

```sql
--10.Rank characters by age in descending order?
Select character_id,name, age from Characters order by age desc;
```

Results | Messages

	character_id	name	age
1	7	Jim Hopper	45
2	6	Joyce Byers	42
3	9	Jonathan Byers	19
4	8	Steve Harrington	18
5	10	Nancy Wheeler	17
6	2	Mike Wheeler	16
7	3	Dustin Henderson	16
8	4	Lucas Sinclair	16
9	5	Will Byers	16
10	1	Eleven	15

THANK YOU

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Challenge by:-Digits n data