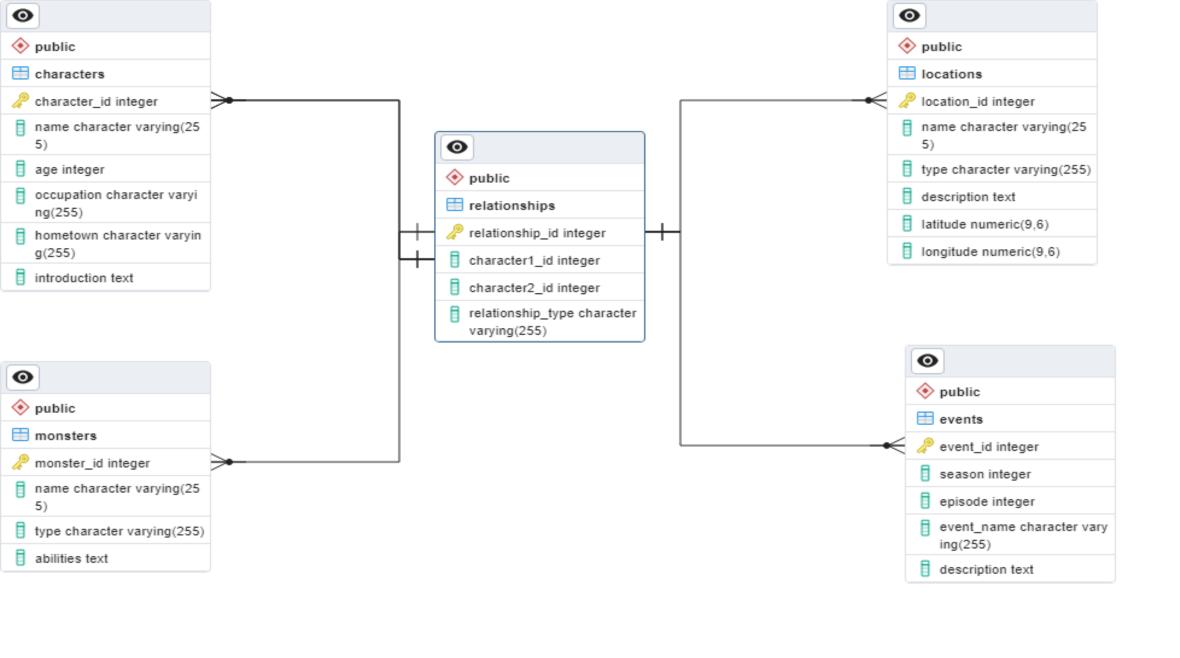
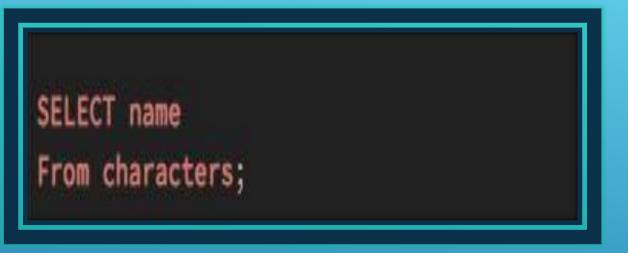
SQL CASE STUDY





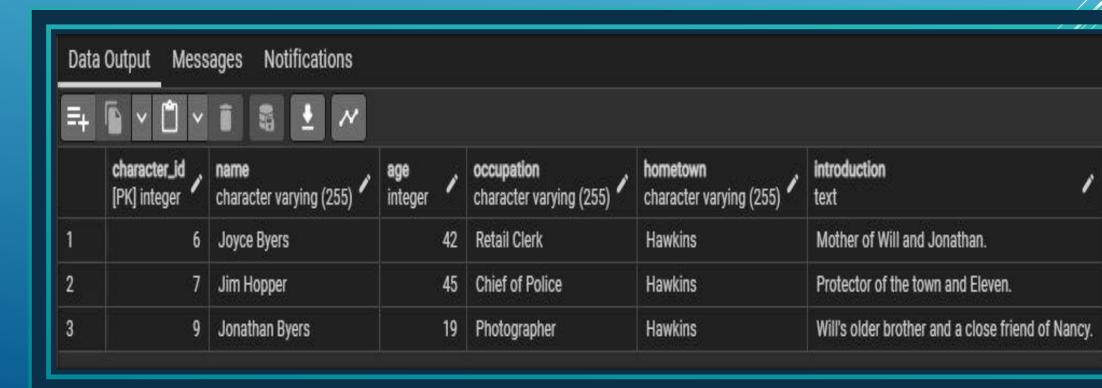
Q1) Retrieve the names of the characters.?





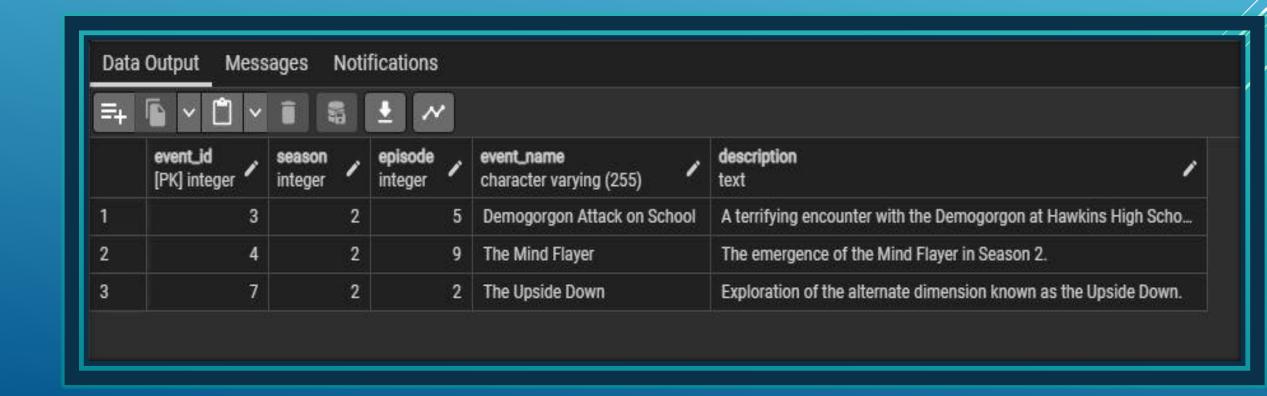
Q2) Find characters with age greater than 18?

```
SELECT *
FROM Characters
WHERE age >18;
```



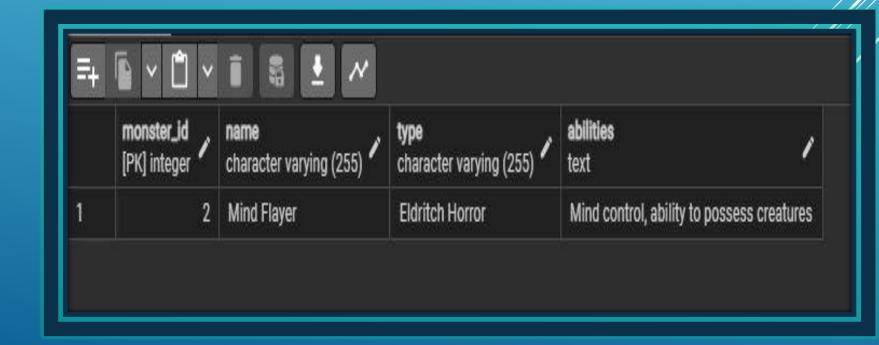
Q3) Find events in season 2.?

```
SELECT *
FROM Events
WHERE season = 2;
```



Q4) Get details of the 'mind flayer' monster?

```
SELECT *
FROM Monsters
WHERE "name" = 'Mind Flayer';
```



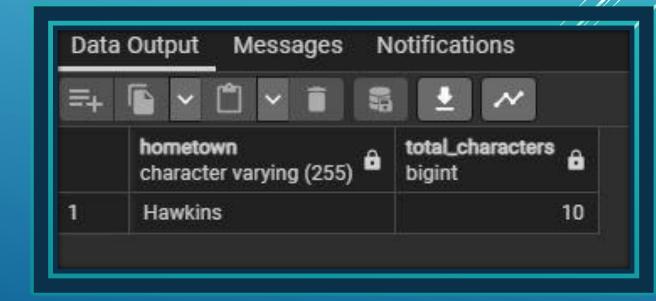
Q5) Retrieve characters and their associated events.?

```
SELECT 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.character1_id = e.event_id OR r.character2_id=e.event_id;
```

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

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

```
SELECT hometown ,COUNT(character_id)AS Total_Characters
FROM
Characters
GROUP BY hometown;
```



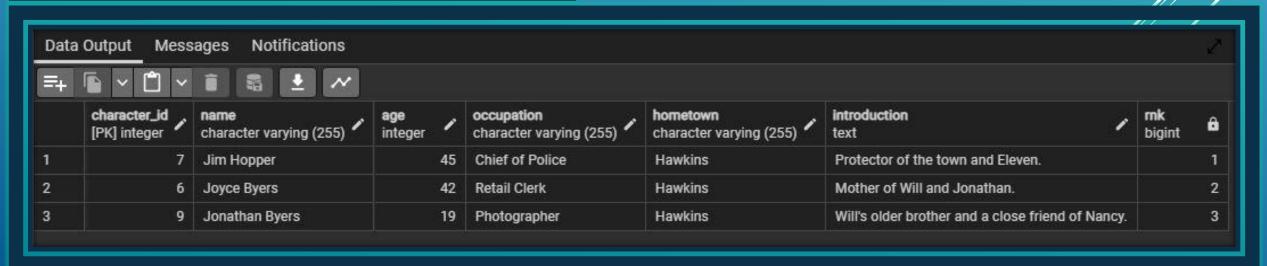
Q7) Retrieve characters who were involved in events in season 1 or season 2.?

```
SELECT 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 season IN(1,2);
```



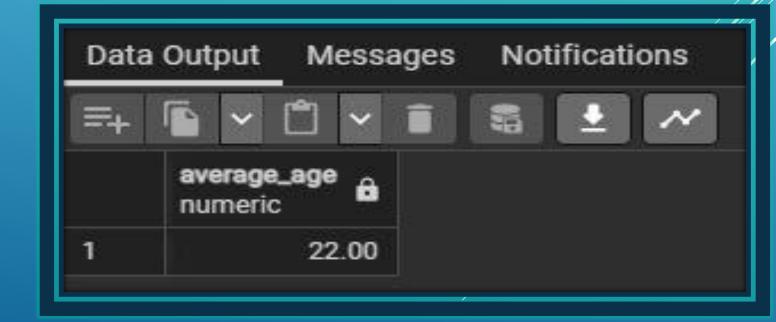
Q8) Find the top 3 oldest characters?

```
SELECT *
FROM
Characters
ORDER BY Age
DESC LIMIT 3;
--OR --
SELECT Ranked_rows.*
FROM
    (SELECT characters.*,
            rank()OVER( order by age DESC) AS rnk
            From Characters)
            AS Ranked_Rows
WHERE rnk<=3;
```



Q9) Find the average age of characters in hawkins?

```
SELECT ROUND(AVG(age),2) AS Average_Age
FROM
Characters
WHERE Hometown = 'Hawkins';
```



Q10) Rank characters by age in descending order.?

=+					
	name character varying (255)	age integer	rnk 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		
7	Lucas Sinclair	16	6		
8	Dustin Henderson	16	6		
9	Mike Wheeler	16	6		

Thank you

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