



Exploring Insights from “Friends TV show”
DataSet!

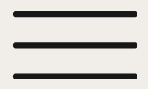


SQL QUERIES FOR



Presented by **Ketan Bhattacharjee**

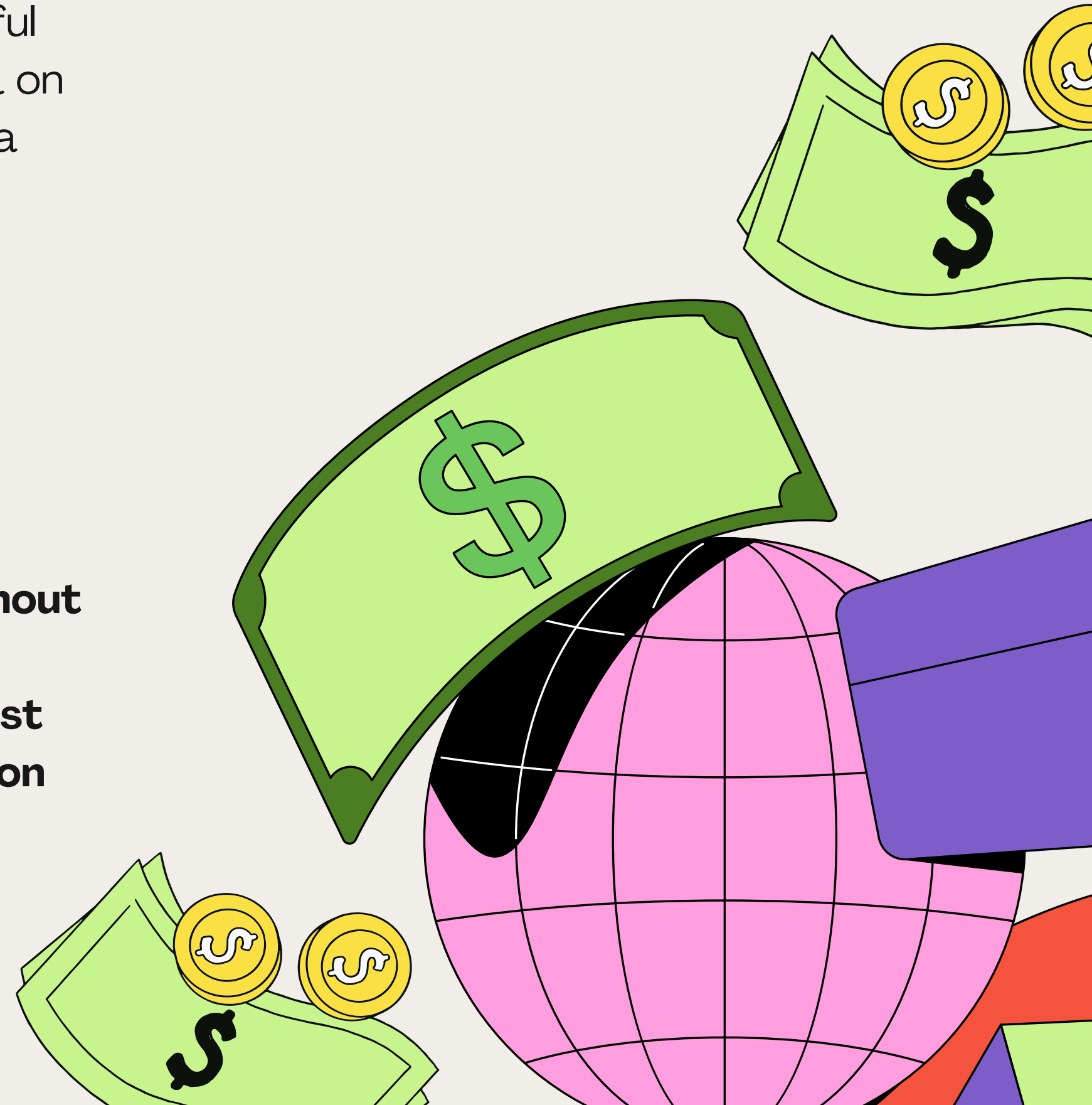
ANALYSIS



Objective of the Analysis

The objective of this analysis is to explore and extract meaningful insights from the **Friends TV show** dataset, which includes data on characters, episodes, appearances, and relationships. Through a series of SQL queries, the analysis aims to:

- **Identify and list all characters and their attributes.**
- **Retrieve episode details such as titles, air dates, and seasonal patterns.**
- **Examine character appearances across episodes to understand screen presence.**
- **Analyze character relationships and interactions throughout the series.**
- **Investigate trends such as most featured characters, first and last episodes of each season, and episode participation patterns.**



DataSet Overview

Episodes Table

episode_id	Season	Episode Number	Title	Air Date
1	1	1	The One Where Monica Gets a Roommate	1994-09-22
2	1	2	The One with the Sonogram at the End	1994-09-29
3	1	3	The One with the Thumb	1994-10-06
4	1	4	The One with George Stephanopoulos	1994-10-13
5	2	1	The One with Ross's New Girlfriend	1995-09-21
6	2	7	The One Where Ross Finds Out	1995-11-09
7	3	25	The One at the Beach	1997-05-15
8	4	24	The One with Ross's Wedding: Part 2	1998-05-07
9	5	14	The One Where Everybody Finds Out	1999-02-11
10	6	25	The One with the Proposal	2000-05-18
11	7	24	The One with Monica and Chandler's Wedding: Part 2	2001-05-17
12	8	24	The One Where Rachel Has a Baby: Part 2	2002-05-16
13	9	18	The One with the Lottery	2003-04-03
14	10	17	The Last One: Part 1	2004-05-06
15	10	18	The Last One: Part 2	2004-05-06

Characters Table

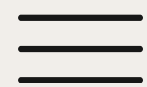
character_id	Name	Gender	Occupation	Catchphrase
1	Joey Tribbiani	Male	Actor	How you doin'?
2	Monica Geller	Female	Chef	Welcome to the real world!
3	Chandler Bing	Male	IT Specialist	Could I BE any more sarcastic?
4	Rachel Green	Female	Fashion Executive	Oh. My. God!
5	Ross Geller	Male	Paleontologist	We were on a break!
6	Phoebe Buffay	Female	Musician	Smelly Cat, Smelly Cat...
7	Gunther	Male	Central Perk Manager	Rachel!
8	Janice Litman	Female	Unknown	Oh. My. God!
9	Mike Hannigan	Male	Pianist	I like marriage.
10	Richard Burke	Male	Ophthalmologist	I love Monica.
11	Emily Waltham	Female	Englishwoman	Ross, I take thee, Rachel...
12	David	Male	Scientist	I'm going to Minsk.

Character Appearances Table

id	character_id	episode_id	Character	Episode Title
1	1	1	Joey Tribbiani	The One Where Monica Gets a Roommate
2	2	1	Monica Geller	The One Where Monica Gets a Roommate
3	3	1	Chandler Bing	The One Where Monica Gets a Roommate
4	4	1	Rachel Green	The One Where Monica Gets a Roommate
5	5	1	Ross Geller	The One Where Monica Gets a Roommate
6	6	1	Phoebe Buffay	The One Where Monica Gets a Roommate
7	1	5	Joey Tribbiani	The One with Ross's New Girlfriend
8	4	5	Rachel Green	The One with Ross's New Girlfriend
9	5	5	Ross Geller	The One with Ross's New Girlfriend
10	6	5	Phoebe Buffay	The One with Ross's New Girlfriend

Relationships Table

relationship_id	character1_id	character2_id	Relationship Type	Start Season
1	1	3	Roommates	1
2	2	3	Dating	5
3	2	3	Married	7
4	4	5	Dating	2
5	4	5	Married	5
6	4	5	Parents	8
7	2	5	Siblings	1
8	6	9	Married	9
9	1	4	Dating	8
10	7	4	Crush	1



Problem Statements

Question: "1) Get all characters in the show ?"



```
select * from characters;
```

character_id	name	gender	occupation	catchphrase
1	Joey Tribbiani	Male	Actor	How you doin'?
2	Monica Geller	Female	Chef	Welcome to the real world!
3	Chandler Bing	Male	IT Specialist	Could I BE any more sarcastic?
4	Rachel Green	Female	Fashion Executive	Oh. My. God!
5	Ross Geller	Male	Paleontologist	We were on a break!
6	Phoebe Buffay	Female	Musician	Smelly Cat, Smelly Cat...
7	Gunther	Male	Central Perk Manager	Rachel!
8	Janice Litman	Female	Unknown	Oh. My. God!
9	Mike Hannigan	Male	Pianist	I like marriage.
10	Richard Burke	Male	Ophthalmologist	I love Monica.
11	Emily Waltham	Female	Englishwoman	Ross, I take thee, Rachel...
12	David	Male	Scientist	I'm going to Minsk.

Question: "2) Get all episode titles and their air dates ?"



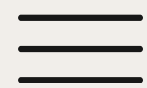
```
select title,air_date from episodes  
order by air_date;
```

title	air_date
The One Where Monica Gets a Roommate	1994-09-22
The One with the Sonogram at the End	1994-09-29
The One with the Thumb	1994-10-06
The One with George Stephanopoulos	1994-10-13
The One with Ross's New Girlfriend	1995-09-21
The One Where Ross Finds Out	1995-11-09
The One at the Beach	1997-05-15
The One with Ross's Wedding: Part 2	1998-05-07
The One Where Everybody Finds Out	1999-02-11
The One with the Proposal	2000-05-18
The One with Monica and Chandler's We...	2001-05-17
The One Where Rachel Has a Baby: Part 2	2002-05-16
The One with the Lottery	2003-04-03
The Last One: Part 1	2004-05-06
The Last One: Part 2	2004-05-06



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Problem Statements



Question: "3) Find Joey Tribbiani's occupation ?"



```
select name, occupation
from characters
where name = 'Joey Tribbiani';
```

name	occupation
Joey Tribbiani	Actor

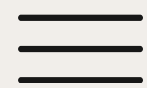
Question: "4) Find how many episodes each character has appeared in ?"



```
select c.name, COUNT(ca.episode_id)
AS episode_count
from characters c
join character_appearances ca on
c.character_id = ca.character_id
group by c.name
order by count(ca.episode_id) desc;
```

name	episode_count
Joey Tribbiani	2
Rachel Green	2
Ross Geller	2
Phoebe Buffay	2
Monica Geller	1
Chandler Bing	1





Problem Statements



Question: "5) Find the highest number of characters appearing in a single episode ?"



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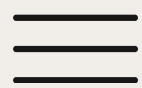
```
select count(ca.character_id) as
character_count,ep.title
from character_appearances ca
join episodes ep on ep.episode_id =
ca.episode_id
group by ep.title
order by character_count desc
limit 1;
```

character_count	title
6	The One Where Monica Gets a Roommate

Question: "6) Find all episodes that aired between 1998 and 2002 ?"

```
select title,air_date
from episodes
where air_date between '1998-01-01'
and '2002-01-01'
order by air_date;
```

title	air_date
The One with Ross's Wedding: Part 2	1998-05-07
The One Where Everybody Finds Out	1999-02-11
The One with the Proposal	2000-05-18
The One with Monica and Chandler's Wedding: Part 2	2001-05-17



Problem Statements



Question: "7) Find all characters whose name starts with 'J' ?"



```
select name
from characters
where name like 'J%';
```

name
Joey Tribbiani
Janice Litman

Question: "8) Find all episodes from season 5 or season 6 ?"

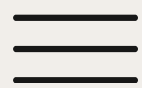


```
select title, season, episode_number
from episodes
where season in (5, 6)
order by season, episode_number;
```

title	season	episode_number
The One Where Everybody Finds Out	5	14
The One with the Proposal	6	25



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Problem Statements



Question: "9) Find the first and last episode of each season ?"



```
(
  SELECT season, episode_number, title, air_date
  FROM episodes
  WHERE (season, episode_number) IN (
    SELECT season, MIN(episode_number)
    FROM episodes
    GROUP BY season
  )
)
UNION
(
  SELECT season, episode_number, title, air_date
  FROM episodes
  WHERE (season, episode_number) IN (
    SELECT season, MAX(episode_number)
    FROM episodes
    GROUP BY season
  )
)
ORDER BY season, episode_number;
```

season	episode_number	title	air_date
1	1	The One Where Monica Gets a Roommate	1994-09-22
1	4	The One with George Stephanopoulos	1994-10-13
2	1	The One with Ross's New Girlfriend	1995-09-21
2	7	The One Where Ross Finds Out	1995-11-09
3	25	The One at the Beach	1997-05-15
4	24	The One with Ross's Wedding: Part 2	1998-05-07
5	14	The One Where Everybody Finds Out	1999-02-11
6	25	The One with the Proposal	2000-05-18
7	24	The One with Monica and Chandler's Wedding: ...	2001-05-17
8	24	The One Where Rachel Has a Baby: Part 2	2002-05-16
9	18	The One with the Lottery	2003-04-03
10	17	The Last One: Part 1	2004-05-06
10	18	The Last One: Part 2	2004-05-06

Question: "Find all female characters in the show ?"



```
select name
from characters
where gender = 'Female';
```

name
Monica Geller
Rachel Green
Phoebe Buffay
Janice Litman
Emily Waltham



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Conclusion



This SQL-based analysis of the Friends TV show dataset has provided valuable insights into the show's structure, character involvement, and episode timelines.

Key takeaways include:

- The show features a diverse set of characters, with Joey Tribbiani, Monica Geller, Chandler Bing, Rachel Green, Ross Geller, and Phoebe Buffay appearing most frequently.
- The episode "The One Where Monica Gets a Roommate" marked the beginning of the series, while "The Last One: Part 2" concluded it in 2004.
- The period between 1998 and 2002 saw a high concentration of major events and character developments.
- Relationships and recurring appearances highlight strong bonds such as friendships, romantic relationships, and family ties.
- Female characters are well-represented and play significant roles throughout all seasons.
- The highest character participation in a single episode gives insight into pivotal or ensemble-heavy moments in the show.



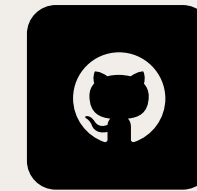
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