

```
Create database netflix;  
Use netflix;
```

```
DROP TABLE IF EXISTS netflix;
```

```
-- creating a table called netflix
```

```
CREATE TABLE netflix (show_id VARCHAR(5), type VARCHAR(10), title VARCHAR(250),  
director VARCHAR(550), casts VARCHAR(1050), country VARCHAR(550), date_added  
VARCHAR(55), release_year INT, rating VARCHAR(15), duration VARCHAR(15), listed_in  
VARCHAR(250), description VARCHAR(550));
```

Output			
#	Time	Action	Message
1	11:26:43	Create database netflix	1 row(s) affected
2	11:26:46	Use netflix	0 row(s) affected
3	11:26:50	CREATE TABLE netflix (show_id VARCHAR(5), type VARCHAR(10), title VARCHAR(250), director VARCHAR(550), casts VARCHAR(1050), country VARCHAR(550), date_added VARCHAR(55), release_year INT, rating VARCHAR(15), duration VARCHAR(15), listed_in VARCHAR(250), description VARCHAR(550));	0 row(s) affected
4	11:26:54	SELECT * FROM netflix LIMIT 0, 10000	0 row(s) returned

```
-- import data from CSV file
```

```
SET GLOBAL local_infile = 1;
```

```
LOAD DATA LOCAL INFILE 'H:/Data Analytics/SQL/netflix/netflix_titles.csv'  
INTO TABLE netflix  
FIELDS TERMINATED BY ','  
ENCLOSED BY ""  
LINES TERMINATED BY '\n'  
IGNORE 1 LINES;
```

Output			
#	Time	Action	Message
5	11:59:31	LOAD DATA LOCAL INFILE 'H:/Data Analytics/SQL/netflix/netflix.csv' INTO TABLE netflix ...	Error Code: 2. File 'H:/Data Analytics/SQL/netflix/netflix.csv' not found (OS error 2 - No such file or directory). 0.000 sec
6	11:59:58	LOAD DATA LOCAL INFILE 'H:/Data Analytics/SQL/netflix/netflix_titles.csv' INTO TABLE netflix ...	Error Code: 2. File 'H:/Data Analytics/SQL/netflix/netflix_titles.csv' not found (OS error 2 - No such file or directory). 0.000 sec
7	12:00:39	LOAD DATA LOCAL INFILE 'H:/Data Analytics/SQL/netflix/netflix_titles.csv' INTO TABLE netflix ...	Error Code: 2. File 'H:/Data Analytics/SQL/netflix/netflix_titles.csv' not found (OS error 2 - No such file or directory). 0.000 sec
8	12:01:10	LOAD DATA LOCAL INFILE 'H:/Data Analytics/SQL/netflix/netflix_titles.csv' INTO TABLE netflix ...	8807 row(s) affected Records: 8807 Deleted: 0 Skipped: 0 Warnings: 0 0.500 sec

```
-- Data uploaded successfully
```

```
SELECT * FROM netflix;
```

Result Grid						
show_id	type	title	director	casts	country	date_added
s1	Movie	Dick Johnson Is Dead	Kirsten Johnson		United States	September 25, 2017
s2	TV Show	Blood & Water		Ama Qamata, Khosi Ngema, Gail Mabalane, Thabo...	South Africa	September 24, 2017
s3	TV Show	Ganglands	Julien Ledercq	Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabi...		September 24, 2017
s4	TV Show	Jailbirds New Orleans				September 24, 2017
s5	TV Show	Kota Factory		Mayur More, Jitendra Kumar, Ranjan Raj, Alam ...	India	September 24, 2017
s6	TV Show	Midnight Mass	Mike Flanagan	Kate Siegel, Zach Gilford, Hamish Linklater, Hen...		September 24, 2017
s7	Movie	My Little Pony: A New Generation	Robert Cullen, JosÃ© Luis Ucha	Vanessa Hudgens, Kimiko Glenn, James Marsden...		September 24, 2017
s8	Movie	Sankofa	Haile Gerima	Kofi Ghanaba, Oyafunmike Ogunlana, Alexandra ...	United States, Ghana, Burkina Faso, United Kin...	September 24, 2017
s9	TV Show	The Great British Baking Show	Andy Devonshire	Mel Giedroyc, Sue Perkins, Mary Berry, Paul Holl...	United Kingdom	September 24, 2017
s10	Movie	The Starling	Theodore Melfi	Melissa McCarthy, Chris O'Dowd, Kevin Kline, Ti...	United States	September 24, 2017
s11	TV Show	Vendetta: Truth, Lies and The M...				September 24, 2017
s12	TV Show	Bangkok Breaking	Kongklat Komesiri	Sukollawat Kanarat, Sushar Manayong, Pavarit ...		September 23, 2017
s13	Movie	Je Suis Karl	Christian Schwuchow	Luna Wedler, Jannis NiewÃ¶hrner, Milan Peschel...	Germany, Czech Republic	September 23, 2017
s14	Movie	Confessions of an Invisible Girl	Bruno Garotti	Klara Castanho, Lucca Picon, JÃ¢lia Gomes, Mar...		September 22, 2017
s15	TV Show	Crime Stories: India Detectives				September 22, 2017
s16	TV Show	Dear White People		Logan Browning, Brandon P. Bell, DeRon Horton...	United States	September 22, 2017
s17	Movie	Europe's Most Dangerous Man: ...	Pedro de Echave GarcÃ¡a, Pablo...			September 22, 2017

```
-- Finding no_of_missing_values
SELECT
    SUM(CASE WHEN show_id IS NULL OR show_id = "" THEN 1 ELSE 0 END) AS
show_id_missing,
    SUM(CASE WHEN type IS NULL OR type = "" THEN 1 ELSE 0 END) AS type_missing,
    SUM(CASE WHEN title IS NULL OR title = "" THEN 1 ELSE 0 END) AS title_missing,
    SUM(CASE WHEN director IS NULL OR director = "" THEN 1 ELSE 0 END) AS
director_missing,
    SUM(CASE WHEN casts IS NULL OR casts = "" THEN 1 ELSE 0 END) AS casts_missing,
    SUM(CASE WHEN country IS NULL OR country = "" THEN 1 ELSE 0 END) AS
country_missing,
    SUM(CASE WHEN date_added IS NULL OR date_added = "" THEN 1 ELSE 0 END) AS
date_added_missing,
    SUM(CASE WHEN rating IS NULL OR rating = "" THEN 1 ELSE 0 END) AS rating_missing,
    SUM(CASE WHEN duration IS NULL OR duration = "" THEN 1 ELSE 0 END) AS
duration_missing
FROM netflix;
```

	show_id_missing	type_missing	title_missing	director_missing	casts_missing	country_missing	date_added_missing	rating_missing	duration_missing
▶	0	0	0	2634	825	831	10	4	3

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Result 1 ×

```
-- updating missing/blank values as 'not available'
UPDATE netflix SET director = 'Not Available' WHERE director = "" or director is null ;
UPDATE netflix SET casts = 'Not Available' WHERE casts = "" or casts is null ;
UPDATE netflix SET country = 'Not Available' WHERE country = "" or country is null ;
UPDATE netflix SET date_added = 'Not Available' WHERE date_added = "" or date_added is null ;
UPDATE netflix SET rating = 'Not Available' WHERE rating = "" or rating is null ;
UPDATE netflix SET duration = 'Not Available' WHERE duration = "" or duration is null ;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | □

	show_id	type	title	director	casts	country	date_added
▶	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	Not Available	United States	September 25, 202
	s2	TV Show	Blood & Water	Not Available	Ama Qamata, Khosi Ngema, Gail Mabalane, Tha...	South Africa	September 24, 202
	s3	TV Show	Ganglands	Julien Ledercq	Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabi...	Not Available	September 24, 202
	s4	TV Show	Jailbirds New Orleans	Not Available	Not Available	Not Available	September 24, 202
	s5	TV Show	Kota Factory	Not Available	Mayur More, Jitendra Kumar, Ranjan Raj, Alam ...	India	September 24, 202
	s6	TV Show	Midnight Mass	Mike Flanagan	Kate Siegel, Zach Gilford, Hamish Linklater, Hen...	Not Available	September 24, 202
	s7	Movie	My Little Pony: A New Generation	Robert Cullen, José Luis Ucha	Vanessa Hudgens, Kimiko Glenn, James Marsde...	Not Available	September 24, 202
	s8	Movie	Sankofa	Halle Gerima	Kofi Ghanaba, Oyafunmike Ogunlana, Alexandr...	United States, Ghana, Burkina Faso, United Kin...	September 24, 202
	s9	TV Show	The Great British Baking Show	Andy Devonshire	Mel Giedroyc, Sue Perkins, Mary Berry, Paul Holl...	United Kingdom	September 24, 202
	s10	Movie	The Starling	Theodore Melfi	Melissa McCarthy, Chris O'Dowd, Kevin Kline, Ti...	United States	September 24, 202
	s11	TV Show	Vendetta: Truth, Lies and The M...	Not Available	Not Available	Not Available	September 24, 202
	s12	TV Show	Bangkok Breaking	Kongkiat Komesiri	Sukollawat Kanarot, Sushar Manaying, Pavarit ...	Not Available	September 23, 202
	s13	Movie	Je Suis Karl	Christian Schwochow	Luna Wedler, Jannis Niewöhner, Milan Peschel, ...	Germany, Czech Republic	September 23, 202
	s14	Movie	Confessions of an Invisible Girl	Bruno Garotti	Klara Castanho, Lucca Picon, Júlia Gomes, Marc...	Not Available	September 22, 202
	s15	TV Show	Crime Stories: India Detectives	Not Available	Not Available	Not Available	September 22, 202
	s16	TV Show	Dear White People	Not Available	Logan Browning, Brandon P. Bell, DeRon Horton...	United States	September 22, 202
	s17	Movie	Europe's Most Dangerous Man: ...	Pedro de Echave García, Pab...	Not Available	Not Available	September 22, 202
	s18	TV Show	Falsa identidad	Not Available	Luis Ernesto Franco, Camila Sodi, Sergio Goyri, ...	Mexico	September 22, 202
	s19	Movie	Intrusion	Adam Salky	Freida Pinto, Logan Marshall-Green, Robert Joh...	Not Available	September 22, 202
	s20	TV Show	Jaguar	Not Available	Blanca Suárez, Iván Marcos, Óscar Casas, Adri...	Not Available	September 22, 202
	s21	TV Show	Monsters Inside: The 24 Faces o...	Olivier Megaton	Not Available	Not Available	September 22, 202

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-- Describe Table

Desc netflix;

47 Result Grid | Filter Rows: | Export: | Wrap Cell Content: | □

	Field	Type	Null	Key	Default	Extra
▶	show_id	varchar(5)	YES	NULL		
	type	varchar(10)	YES	NULL		
	title	varchar(250)	YES	NULL		
	director	varchar(550)	YES	NULL		
	casts	varchar(1050)	YES	NULL		
	country	varchar(550)	YES	NULL		
	date_added	varchar(55)	YES	NULL		
	release_year	int	YES	NULL		
	rating	varchar(15)	YES	NULL		
	duration	varchar(15)	YES	NULL		
	listed_in	varchar(250)	YES	NULL		
	description	varchar(550)	YES	NULL		

Ac

-- Correct the data

UPDATE netflix

SET director = 'Steven Bognar, Julia Reichert'

WHERE title = '9to5: The Story of a Movement' ;

Result Grid | Filter Rows: Export: Wrap Cell Content:

show_id	type	title	director	casts	country	date_added
s3074	Movie	Road Trip: Beer Pong	Steve Rash	Nestor Aaron Absera, Julianne Gull, Preston Jo...	United States	January 1, 2020
s1097	Movie	The Last Kids on Earth: Happy A...	Steve Rolston	Nick Wolfhard, Charles Demers, Montse Hernan...	Not Available	April 6, 2021
s7490	Movie	Monster High 13 Wishes	Steve Sacks	Erin Fitzgerald, Missi Hale, Marcus Griffin, Cele...	United States	March 1, 2018
s405	Movie	9to5: The Story of a Movement	Steven Bognar, Julia Reichert	Not Available	Not Available	July 22, 2021
s1722	TV Show	A Lion in the House	Steven Bognar, Julia Reichert	Not Available	United States	November 10, 2020
s3568	Movie	American Factory	Steven Bognar, Julia Reichert	Not Available	United States	August 21, 2019
s5534	Movie	Sandy Wexler	Steven Brill	Adam Sandler, Jennifer Hudson, Kevin James, T...	United States	April 14, 2017
s5847	Movie	The Do-Over	Steven Brill	Adam Sandler, David Spade, Paula Patton, Kath...	United States	May 27, 2016

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netflix 4

Use netflix;

-- Project TASK

-- 1. Count the number of Movies vs TV Shows

```
SELECT type, COUNT(*)  
FROM netflix  
GROUP BY 1;
```

Result Grid Filter Rows: <input type="text"/> Export: Wrap Cell Content:		
	type	COUNT(*)
▶	Movie	6131
	TV Show	2676

-- 2. Find the most common rating for movies and TV shows

Delimiter \$\$

```
Create procedure most_common_ratings()
```

```
Begin
```

```
    SELECT type, rating, total_count  
    FROM (  
        SELECT  
            type,  
            rating,  
            COUNT(*) AS total_count,  
            RANK() OVER(PARTITION BY type ORDER BY COUNT(*) DESC) as  
ranks  
        FROM netflix  
        GROUP BY type, rating  
) AS Ranking  
    WHERE ranks = 1;
```

```
End $$
```

```
Delimiter ;
```

```
Call most_common_ratings();
```

Result Grid Filter Rows: <input type="text"/> Export: Wrap Cell Content:		
	type	rating
▶	Movie	TV-MA
	TV Show	TV-MA
		total_count
		2062
		1145

-- 3. List all movies released in a specific year (e.g., 2020)

Select * From netflix where release_year = '2020';

show_id	type	title	director	casts	country	date_added
s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	Not Available	United States	September 25, 2021
s17	Movie	Europe's Most Dangerous Man: Otto Skorzeny i...	Pedro de Echave García, Pablo Azorin Williams	Not Available	Not Available	September 22, 2021
s18	TV Show	Falsa identidad	Not Available	Luis Ernesto Franco, Camila Sodi, Sergio Goyri, ...	Mexico	September 22, 2021
s33	TV Show	Sex Education	Not Available	Asa Butterfield, Gillian Anderson, Ncuti Gatwa, ...	United Kingdom	September 17, 2021
s35	TV Show	Tayo and Little Wizards	Not Available	Dami Lee, Jason Lee, Bonnie Catherine Han, J...	Not Available	September 17, 2021
s48	TV Show	The Smart Money Woman	Bunmi Ajakaiye	Osas Igbohodaro, Ini Dima-Okojie, Kemi Lala Akind...	Not Available	September 16, 2021
s79	Movie	Tughlaq Durbar	Delhiprasad Deendayalan	Vijay Sethupathi, Parthiban, Raashi Khanna	Not Available	September 11, 2021
s85	Movie	Omo Ghetto: the Saga	JJC Skillz, Funke Akindele	Funke Akindele, Ayo Makun, Chioma Chukwuka ...	Nigeria	September 10, 2021
s104	Movie	Shadow Parties	Yemi Amodu	Jide Kosoko, Omotola Jalade-Ekeinde, Yemi Blaq...	Not Available	September 6, 2021
s120	Movie	Here and There	JP Habac	Janine Gutierrez, JC Santos, Victor Anastacio, Y...	Not Available	September 2, 2021
s127	Movie	Shikara	Vidhu Vinod Chopra	Aadi Khan, Sadia Khateeb, Zain Khan Durrani, ...	India	September 2, 2021
s149	TV Show	HQ Barbers	Gerhard Mostert	Hakeem Kae-Kazim, Chioma Omerualu, Orukota...	Not Available	September 1, 2021
s190	TV Show	Bread Barbershop	Not Available	Um Sang-hyun, Park Yoon-hee, Kang Shi-hyun, ...	Not Available	August 28, 2021
s228	Movie	Really Love	Angel Kristi Williams	Kofi Siriboe, Yootha Wong-Loi-Sing, Michael Eal...	United States	August 25, 2021
s230	Movie	The Old Ways	Christopher Anderer	Brigitte Kali Canales, Andrea Cortes, Julia Vera,...	United States	August 25, 2021
s251	Movie	A Faraway Land	Veronica Velasco	Paolo Contis, Yen Santos, Hane Tórgarð, Ruby ...	Not Available	August 19, 2021
s257	Movie	Nneka The Pretty Serpent	Tosin Igbo	Idia Aisien, Ndidi Obi, Kenneth Okolie, Zack Orji,...	Not Available	August 18, 2021
s259	Movie	Out of my league	Alice Filippi	Ludovica Francesconi, Giuseppe Maggio, Gaja M...	Not Available	August 18, 2021

-- 4. Find the top 5 countries with the most content on Netflix

```
SELECT country, COUNT(*) AS total_content
FROM netflix
WHERE country IS NOT NULL
GROUP BY country
ORDER BY total_content DESC
LIMIT 5;
```

country	total_content
United States	2818
India	972
Not Available	831
United Kingdom	419
Japan	245

-- 5. Identify the top 10 longest movie

```
SELECT *
FROM netflix
WHERE type = 'Movie'
ORDER BY CAST(SUBSTRING_INDEX(duration, '', 1) AS UNSIGNED) DESC
LIMIT 10;
```

show_id	type	title	director	casts	country	date_added	release_year	rating	duration	listed_in
s4254	Movie	Black Mirror: Bandersnatch	Not Available	Fionn Whitehead, Will Poulter, Craig Parkinson, ...	United States	December 28, 2018	2018	TV-MA	312 min	Dramas, International Movies, Sci-Fi & Fantasy
s718	Movie	Headspace: Unwind Your Mind	Not Available	Andy Puddicombe, Evelyn Lewis Prieto, Ginger ...	Not Available	June 15, 2021	2021	TV-G	273 min	Documentaries
s2492	Movie	The School of Mischief	Houssam El-Din Mustafa	Suhair El-Babili, Adel Emam, Saeed Saleh, Youn...	Egypt	May 21, 2020	1973	TV-14	253 min	Comedies, Dramas, International Movies
s2488	Movie	No Longer kids	Samir Al Asfory	Said Saleh, Hassan Moustafa, Ahmed Zaki, You...	Egypt	May 21, 2020	1979	TV-14	237 min	Comedies, Dramas, International Movies
s2485	Movie	Lock Your Girls In	Fouad El-Mohandes	Fouad El-Mohandes, Sanaa Younes, Sherihan, ...	Not Available	May 21, 2020	1982	TV-PG	233 min	Comedies, International Movies, Romances
s2489	Movie	Raya and the Last Dragon	Hussein Kamal	Suhair El-Babili, Shadia, Abdel Moneim Medbouly, ...	Not Available	May 21, 2020	1984	TV-14	230 min	Comedies, Dramas, International Movies
s167	Movie	Once Upon a Time in America	Sergio Leone	Robert De Niro, James Woods, Elizabeth McGovern, ...	Italy, United States	September 1, 2021	1984	R	229 min	Classic Movies, Dramas
s7933	Movie	Sangam	Raj Kapoor	Raj Kapoor, Vyjayanthimala, Rajendra Kumar, L...	India	December 31, 2019	1964	TV-14	228 min	Classic Movies, Dramas, International Movies
s1020	Movie	Lagaan	Ashutosh Gowariker	Aamir Khan, Gracy Singh, Rachel Shelley, Paul B...	India, United Kingdom	April 17, 2021	2001	PG	224 min	Dramas, International Movies, Music & Musicals
s4574	Movie	Jodhaa Akbar	Ashutosh Gowariker	Hrithik Roshan, Aishwarya Rai Bachchan, Sonu ...	India	October 1, 2018	2008	TV-14	214 min	Action & Adventure, Dramas, Internation

-- 6. Find content added in the last 5 years

```
SELECT *
FROM netflix
WHERE STR_TO_DATE(date_added, '%M %d, %Y') >= date_sub(current_date(), INTERVAL 5
YEAR);
```

show_id	type	title	director	casts	country	date_added	release_year	rating	duration
s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	Not Available	United States	September 25, 2021	2020	PG-13	90 min
s2	TV Show	Blood & Water	Not Available	Ama Qamata, Khosi Ngema, Gail Mabslane, Tha...	South Africa	September 24, 2021	2021	TV-MA	2 Seas
s3	TV Show	Ganglands	Julien Ledercq	Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabi...	Not Available	September 24, 2021	2021	TV-MA	1 Seas
s4	TV Show	Jailbirds New Orleans	Not Available	Not Available	Not Available	September 24, 2021	2021	TV-MA	1 Seas
s5	TV Show	Kota Factory	Not Available	Mayur More, Jitendra Kumar, Ranjan Raj, Alam ...	India	September 24, 2021	2021	TV-MA	2 Seas
s6	TV Show	Midnight Mass	Mike Flanagan	Kate Siegel, Zach Gilford, Hamish Linklater, Hen...	Not Available	September 24, 2021	2021	TV-MA	1 Seas
s7	Movie	My Little Pony: A New Generation	Robert Cullen, José Luis Ucha	Vanessa Hudgens, Nikiko Glenn, Jamie Marsden...	Not Available	September 24, 2021	2021	PG	91 min
s8	Movie	Sankofa	Hale Gerima	Kofi Ghanaba, Oyafumile Ogundano, Alexander...	United States, Ghana, Burkina Faso, United Kin...	September 24, 2021	1993	TV-MA	125 min
s9	TV Show	The Great British Baking Show	Andy Devonshire	Mel Gedroyc, Sue Perkins, Mary Berry, Paul Holl...	United Kingdom	September 24, 2021	2021	TV-14	9 Seas
s10	Movie	The Starling	Theodore Melfi	Melissa McCarthy, Chris O'Dowd, Kevin Kline, Ti...	United States	September 24, 2021	2021	PG-13	104 min
s11	TV Show	Vendetta: Truth, Lies and The M...	Not Available	Not Available	Not Available	September 24, 2021	2021	TV-MA	1 Seas

-- 7. Find all the movies/TV shows by director 'Rajiv Chilaka'! (using RECURSIVE)

WITH RECURSIVE director_split AS (

SELECT

```
show_id, title,
TRIM(SUBSTRING_INDEX(director, ',', 1)) AS director_name, --
SUBSTRING(director, LOCATE(',', director) + 1) AS remaining_directors
```

FROM netflix

WHERE director IS NOT NULL

UNION ALL

SELECT

```
show_id, title,
TRIM(SUBSTRING_INDEX(remaining_directors, ',', 1)),
IF(LOCATE(',', remaining_directors) > 0,
SUBSTRING(remaining_directors, LOCATE(',', remaining_directors) + 1),
")
```

FROM director_split

WHERE remaining_directors <> "

)

SELECT *

FROM director_split

WHERE director_name = 'Rajiv Chilaka';

show_id	title	director_name	remaining_directors
s408	Chhota Bheem & Ganesh	Rajiv Chilaka	Rajiv Chilaka
s409	Chhota Bheem & Krishna: Mayanagari	Rajiv Chilaka	Rajiv Chilaka
s410	Chhota Bheem & Krishna: Pataliputra: City of th...	Rajiv Chilaka	Rajiv Chilaka
s411	Chhota Bheem And The Broken Amulet	Rajiv Chilaka	Rajiv Chilaka
s412	Chhota Bheem And The Crown of Vallalla	Rajiv Chilaka	Rajiv Chilaka
s413	Chhota Bheem and the Incan Adventure	Rajiv Chilaka	Rajiv Chilaka
s414	Chhota Bheem and The Shikobi Secret	Rajiv Chilaka	Rajiv Chilaka
s415	Chhota Bheem aur Hanuman	Rajiv Chilaka	Rajiv Chilaka
s416	Chhota Bheem aur Krishna	Rajiv Chilaka	Rajiv Chilaka
s417	Chhota Bheem aur Krishna vs Zimbara	Rajiv Chilaka	Rajiv Chilaka
s420	Chhota Bheem: Bheem vs Aliens	Rajiv Chilaka	Rajiv Chilaka

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-- 8. List all TV shows with more than 5 seasons

Select * from netflix where type = 'Tv Show' and substring_index(duration, ',', 1) >5;

show_id	type	title	director	casts	country	date_added	release_year	rating	duration	listed_in
s9	TV Show	The Great British Baking Show	Andy Devonshire	Mel Giedroyc, Sue Perkins, Mary Berry, Paul Holl...	United Kingdom	September 24, 2021	2021	TV-14	9 Seasons	British TV Shows, Reality TV
s56	TV Show	Nailed It	Not Available	Nicole Byer, Jacques Torres	United States	September 15, 2021	2021	TV-PG	6 Seasons	Reality TV
s66	TV Show	Numberblocks	Not Available	Beth Chalmers, David Holt, Marcel McCalla, Ter...	United Kingdom	September 15, 2021	2021	TV-Y	6 Seasons	Kids' TV
s65	TV Show	Saved by the Bell	Not Available	Mark-Paul Gosselaar, Tiffani Thiessen, Mario Lo...	United States	September 15, 2021	1994	TV-PG	9 Seasons	Kids' TV, TV Comedies
s83	TV Show	Lucifer	Not Available	Tom Ellis, Lauren German, Kevin Alejandro, D.B....	United States	September 10, 2021	2021	TV-14	6 Seasons	Crime TV Shows, TV Comedies, TV Drama
s275	TV Show	Grace and Frankie	Not Available	Jane Fonda, Lily Tomlin, Martin Sheen, Sam W...	United States	August 13, 2021	2021	TV-MA	7 Seasons	TV Comedies, TV Dramas
s324	TV Show	30 Rock	Not Available	Tina Fey, Alec Baldwin, Tracy Morgan, Jane Kra...	United States	August 1, 2021	2012	TV-14	7 Seasons	TV Comedies
s339	TV Show	Hunter X Hunter (2011)	Not Available	Megumi Han, Mariya Ise, Keiji Fujiwara, Miyuki S...	Japan	August 1, 2021	2014	TV-14	6 Seasons	Anime Series, International TV Shows
s381	TV Show	The Flash	Glen Winter	Grant Gustin, Candice Patton, Danielle Panabak...	United States	July 28, 2021	2021	TV-14	7 Seasons	Crime TV Shows, TV Action & Adventure,
s391	TV Show	The Walking Dead	Not Available	Andrew Lincoln, Steven Yeun, Norman Reedus, ...	United States	July 26, 2021	2019	TV-MA	10 Seasons	Classic & Cult TV, TV Action & Adventure,
s526	TV Show	Mv Little Pony: Friendship Is ...	Not Available	Ashleigh Ball, Tabitha St. Germain, Tara Strong, ...	United States,...	July 6, 2021	2018	TV-Y	8 Seasons	Kids' TV

-- 9. Count the number of content items in each genre

Select SUBSTRING_Index(Listed_in, ",", 1) as genre, count(listed_in) as content_items from netflix group by 1;

genre	content_items
Action & Adventure	859
Anime Features	21
Anime Series	176
British TV Shows	253
Children & Family Movies	605
Classic & Cult TV	22
Classic Movies	80
Comedies	1210
Crime TV Shows	399
Cult Movies	12
Documentaries	829
Docuseries	221

-- 10. Find each year and the average numbers of content release in India on netflix. return top 5 year with highest avg content release!

```
select country, release_year, count(show_id) as total_content,
       round(count(show_id)/(select count(show_id) from netflix where country = 'india') *
100,1) as avg_release
from netflix
Where country = 'India'
group by country, release_year
order by avg_release desc
Limit 5;
```

	country	release_year	total_content	avg_release
▶	India	2017	101	10.4
	India	2018	94	9.7
	India	2019	87	9.0
	India	2020	75	7.7
	India	2016	73	7.5

Result 17 ×

-- 11. List all movies that are documentaries

Select * From netflix where listed_in like 'documentaries%';

	show_id	type	title	director	casts	country	date_added	release_year	rating	duration	listed_in
▶	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	Not Available	United States	September 25, 2021	2020	PG-13	90 min	Documentaries
	s17	Movie	Europe's Most Dangerous Man: Otto Skorzeny in Spain	Pedro de Echave García, Pablo...	Not Available	Not Available	September 22, 2021	2020	TV-MA	67 min	Documentaries, Internatio...
	s46	Movie	My Heroes Were Cowboys	Tyler Greco	Not Available	Not Available	September 16, 2021	2021	PG	23 min	Documentaries
	s69	Movie	Schumacher	Hanns-Bruno Kammertöns, Va...	Michael Schumacher	Not Available	September 15, 2021	2021	TV-14	113 min	Documentaries, Internatio...
	s89	Movie	Blood Brothers: Malcolm X & Muhammad Ali	Marcus Clarke	Malcolm X, Muhammad Ali	Not Available	September 9, 2021	2021	PG-13	96 min	Documentaries, Sports Mo...
	s92	Movie	The Women and the Murderer	Mona Achache, Patricia Toura...	Not Available	France	September 9, 2021	2021	TV-14	92 min	Documentaries, Internatio...
	s97	Movie	If I Leave Here Tomorrow: A Film About Lynyrd Skynyrd	Stephen Kjek	Ronnie Van Zandt, Gary R...	United States	September 7, 2021	2018	TV-MA	97 min	Documentaries, Music & M...
	s102	Movie	Untold: Breaking Point	Chapman Way, Medina Way	Not Available	United States	September 7, 2021	2021	TV-MA	80 min	Documentaries, Sports Mo...
	s18	Movie	Final Account	Luke Holland	Not Available	United Kingdom, ...	September 2, 2021	2021	PG-13	94 min	Documentaries

netflix 19 ×

-- 12. Find all content without a director

Select * From netflix where director = 'Not Available';

	show_id	type	title	director	casts	country	date_added	release_year	rating	duration	listed_in
▶	s2	TV Show	Blood & Water	Not Available	Ama Qanata, Khosi Ngem...	South Africa	September 24, 2021	2021	TV-MA	2 Seasons	International TV Show
	s4	TV Show	Jailbirds New Orleans	Not Available	Not Available	Not Available	September 24, 2021	2021	TV-MA	1 Season	Documentaries, Reality TV
	s5	TV Show	Kota Factory	Not Available	Mayur More, Jitendra Ku...	India	September 24, 2021	2021	TV-MA	2 Seasons	International TV Show
	s11	TV Show	Vendetta: Truth, Lies and The Mafia	Not Available	Not Available	Not Available	September 24, 2021	2021	TV-MA	1 Season	Crime TV Shows, Doc...
	s15	TV Show	Crime Stories: India Detectives	Not Available	Not Available	Not Available	September 22, 2021	2021	TV-MA	1 Season	British TV Shows, Crim...
	s16	TV Show	Dear White People	Not Available	Logan Browning, Brandon...	United States	September 22, 2021	2021	TV-MA	4 Seasons	TV Comedies, TV Dram...
	s18	TV Show	Falsa Identidad	Not Available	Luis Ernesto Franco, Cami...	Mexico	September 22, 2021	2020	TV-MA	2 Seasons	Crime TV Shows, Spar...
	s20	TV Show	Jaguar	Not Available	Blanca Suárez, Iván Mar...	Not Available	September 22, 2021	2021	TV-MA	1 Season	International TV Show
	s22	TV Show	Resurrection: Ertugrul	Not Available	Engin Altan Düzyatan, Se...	Turkey	September 22, 2021	2018	TV-14	5 Seasons	International TV Show

netflix 20 ×

-- 13. Find how many movies actor 'Salman Khan' appeared in the last 20 years!

```
SELECT title, release_year
FROM netflix
WHERE casts like '%Salman Khan%' and release_year > extract(year from current_date) -20;
```

	title	release_year
▶	Bodyguard	2011
	Prem Ratan Dhan Payo	2015
	Paharganj	2019
	Main aur Mrs. Khanna	2009
	Mumbai Cha Raja	2012
	Ready	2011

-- 14. Find the top 10 actors who have appeared in the highest number of movies produced in India.

```
WITH RECURSIVE actors_split AS (
    -- Initial part: Get the first actor and the remaining string
    SELECT
        TRIM(SUBSTRING_INDEX(casts, ',', 1)) AS actor,
        SUBSTRING(casts, LOCATE(',', casts) + 1) AS remaining_cast,
        IF(LOCATE(',', casts) > 0, 1, 0) AS has_more
    FROM netflix
    WHERE country = 'India' AND casts IS NOT NULL AND casts <> ''
```

```
UNION ALL
```

```
-- Recursive part: Keep splitting the 'remaining_cast' until done
```

```
    SELECT
        TRIM(SUBSTRING_INDEX(remaining_cast, ',', 1)) AS actor,
        IF(LOCATE(',', remaining_cast) > 0, SUBSTRING(remaining_cast, LOCATE(',', remaining_cast) + 1), '') AS remaining_cast,
        IF(LOCATE(',', remaining_cast) > 0, 1, 0) AS has_more
    FROM actors_split
    WHERE has_more = 1
)
SELECT
    actor,
    COUNT(*) AS total_content
```

```

FROM actors_split
WHERE actor <> "
GROUP BY actor
ORDER BY total_content DESC
LIMIT 10;

```

	actor	total_content
▶	Akshay Kumar	28
	Amitabh Bachchan	28
	Anupam Kher	40
	Boman Irani	23
	Kareena Kapoor	24
	Naseeruddin Shah	29
	Not Available	32
	Om Puri	26
	Paresh Rawal	27
	Shah Rukh Khan	32

Result 22 ×

-- 15. Categorize the content based on the presence of the keywords 'kill' and 'violence' in the description field. Label content containing these keywords as 'Bad' and all other content as 'Good'. Count how many items fall into each category.

```

Select category, Count(*) as Content_category
From ( Select Case
        When description like '%kill%' or '%violence%' then 'Bad Movies'
        Else 'Good Movies'
        End as category
        From netflix) as categorized_content
Group by category;

```

	category	Content_category
▶	Good Movies	8503
	Bad Movies	304

Result 23 ×