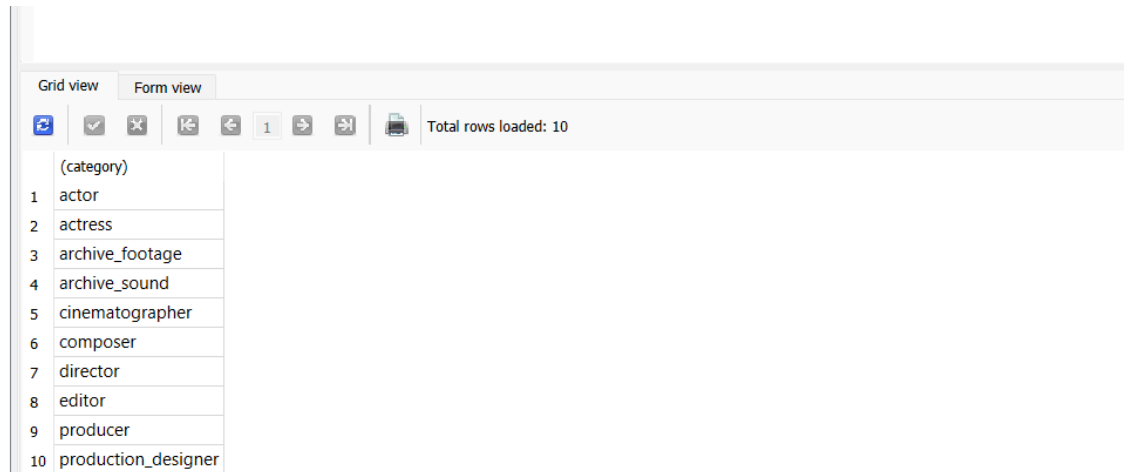


Question 1)

```
SELECT DISTINCT(category) FROM crew
```

```
ORDER BY category
```

```
LIMIT 10;
```



	(category)
1	actor
2	actress
3	archive_footage
4	archive_sound
5	cinematographer
6	composer
7	director
8	editor
9	producer
10	production_designer

Question 2

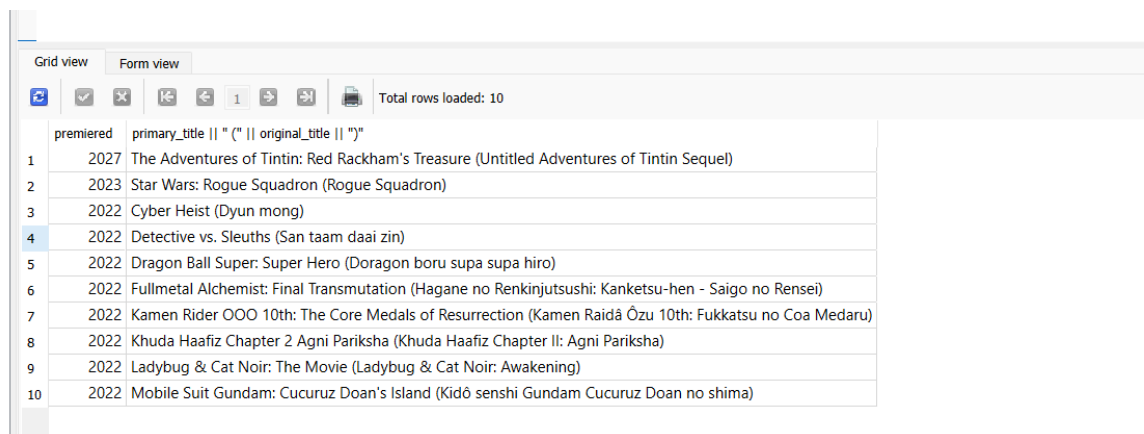
```
select premiered, primary_title || " (" || original_title || ")"
```

```
from titles
```

```
where primary_title <> original_title and type == 'movie' and genres like '%Action%'
```

```
order by premiered desc, primary_title asc
```

```
limit 10;
```



	premiered	primary_title " (" original_title ")"
1	2027	The Adventures of Tintin: Red Rackham's Treasure (Untitled Adventures of Tintin Sequel)
2	2023	Star Wars: Rogue Squadron (Rogue Squadron)
3	2022	Cyber Heist (Dyun mong)
4	2022	Detective vs. Sleuths (San taam daai zin)
5	2022	Dragon Ball Super: Super Hero (Doragon boru supa supa hiro)
6	2022	Fullmetal Alchemist: Final Transmutation (Hagane no Renkinjutsushi: Kanketsu-hen - Saigo no Rensei)
7	2022	Kamen Rider OOO 10th: The Core Medals of Resurrection (Kamen Raidā Ōzu 10th: Fukkatsu no Coa Medaru)
8	2022	Khuda Haafiz Chapter 2 Agni Pariksha (Khuda Haafiz Chapter II: Agni Pariksha)
9	2022	Ladybug & Cat Noir: The Movie (Ladybug & Cat Noir: Awakening)
10	2022	Mobile Suit Gundam: Cucuruz Doan's Island (Kidō senshi Gundam Cucuruz Doan no shima)

Question 3

```
SELECT primary_title,
```

```
       CASE WHEN ended IS NOT NULL THEN ended - premiered
```

```
       ELSE 2023 - premiered
```

```

END AS runtime

FROM titles

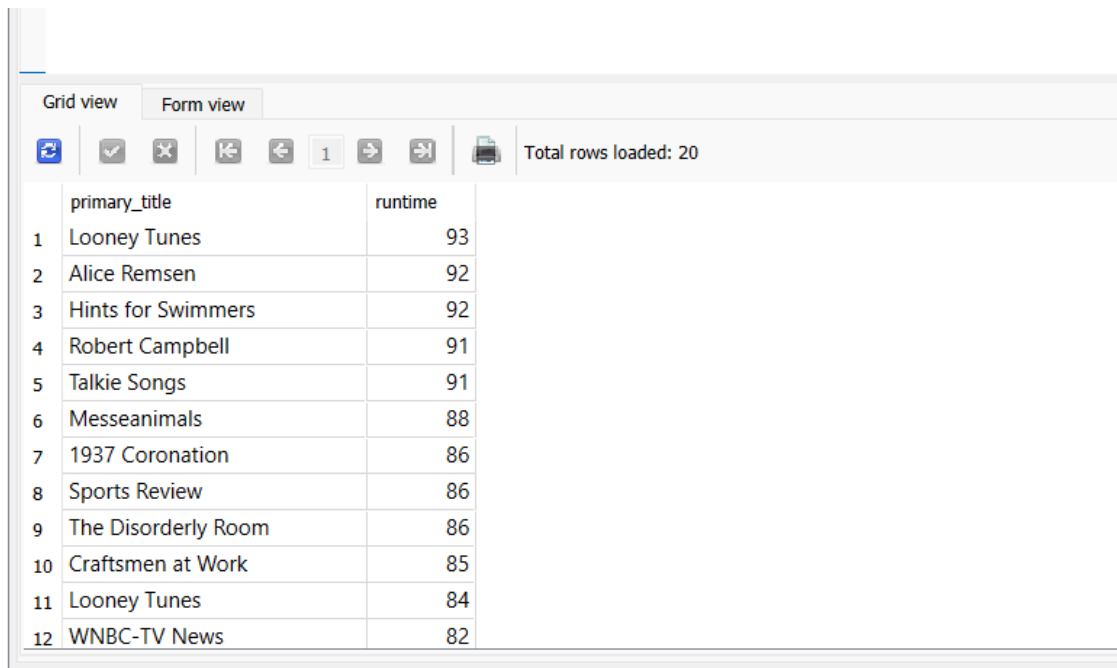
WHERE premiered NOT NULL AND type = 'tvSeries'

ORDER BY runtime DESC,

primary_title ASC

LIMIT 20;

```



	primary_title	runtime
1	Looney Tunes	93
2	Alice Remsen	92
3	Hints for Swimmers	92
4	Robert Campbell	91
5	Talkie Songs	91
6	Messeanimals	88
7	1937 Coronation	86
8	Sports Review	86
9	The Disorderly Room	86
10	Craftsmen at Work	85
11	Looney Tunes	84
12	WNBC-TV News	82

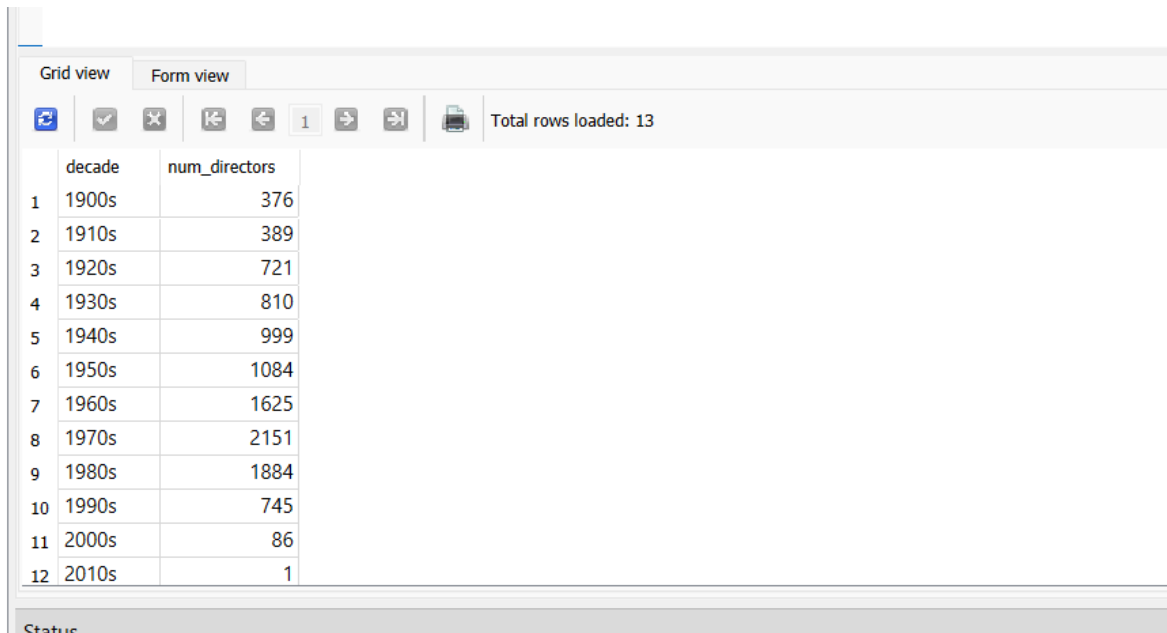
Question 4

```

SELECT CAST(born / 10 * 10 AS TEXT) || 's' AS decade,
        COUNT(DISTINCT(people.person_id)) AS num_directors
FROM people
        JOIN crew ON people.person_id = crew.person_id
WHERE
        born IS NOT NULL
        AND category == 'director'
        AND born >= 1900
GROUP BY decade ;

```

ORDER BY decade ;



The screenshot shows a data grid interface with a toolbar at the top containing icons for various actions like refresh, save, delete, and navigation. The grid displays 13 rows of data, ordered by decade. The columns are labeled 'decade' and 'num_directors'. The data shows a general increase in the number of directors from the 1900s to the 1970s, followed by a slight decrease in the 1980s and 1990s, and a sharp drop in the 2000s and 2010s.

	decade	num_directors
1	1900s	376
2	1910s	389
3	1920s	721
4	1930s	810
5	1940s	999
6	1950s	1084
7	1960s	1625
8	1970s	2151
9	1980s	1884
10	1990s	745
11	2000s	86
12	2010s	1

QUESTION 5

SELECT

t.type,
ROUND(AVG(r.rating), 2) AS avg_rating,
MIN(r.rating),
MAX(r.rating)

FROM

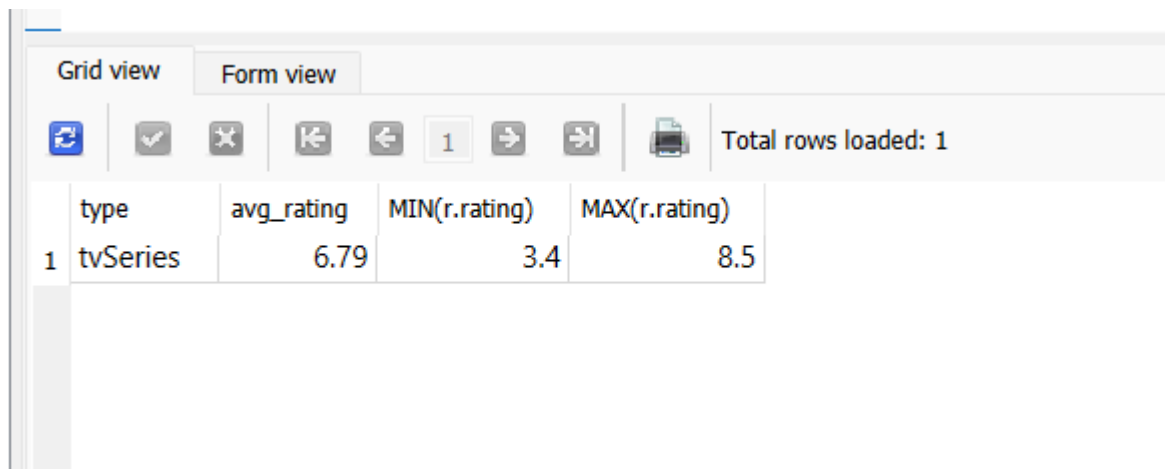
akas as a
JOIN ratings as r ON r.title_id = a.title_id
JOIN titles as t ON t.title_id = a.title_id

WHERE

a.language = 'de'
AND (
a.types = 'imdbDisplay'
OR a.types = 'original'
)

GROUP BY t.type

ORDER BY avg_rating;



	type	avg_rating	MIN(r.rating)	MAX(r.rating)
1	tvSeries	6.79	3.4	8.5

QUESTION 6

```
WITH batman_actors AS(
SELECT DISTINCT(people.person_id) AS id, name
FROM
people
JOIN crew ON people.person_id = crew.person_id
WHERE
characters LIKE '%"Batman"%'
AND category == "actor"
)
SELECT
name,
ROUND(AVG(rating), 2) as avg_rating
FROM
ratings
JOIN crew ON ratings.title_id == crew.title_id
JOIN batman_actors ON crew.person_id == batman_actors.id
GROUP BY batman_actors.id
```

ORDER BY avg_rating DESC

LIMIT 10;



	name	avg_rating
1	Rupert Raineri	8.6
2	William M. Lemke	8.2
3	David Mazouz	8.15
4	Adam Marcinowski	8.1
5	Kevin Porter	8.1
6	Kayd Currier	8.05
7	Kellen Goff	8.01
8	Jason Steele	7.71
9	Jeremy Kewley	7.67
10	Jason O'Mara	7.62

Question 7

SELECT COUNT(DISTINCT people.person_id)

FROM people

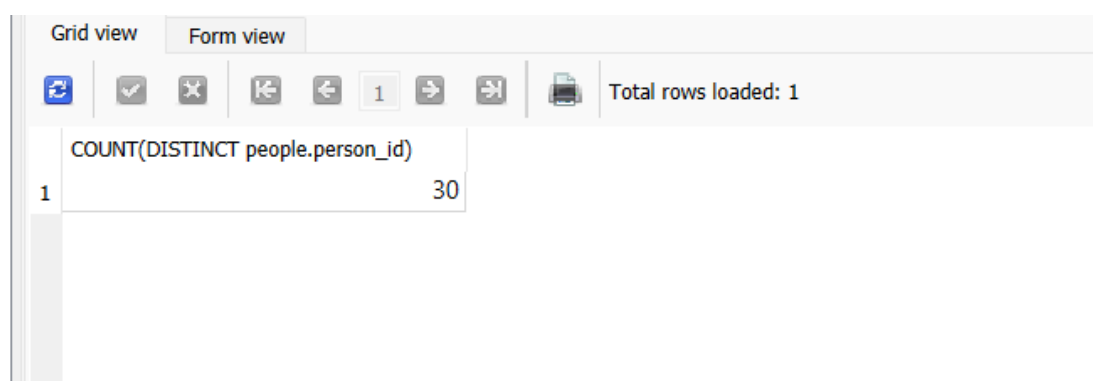
JOIN crew ON people.person_id == crew.person_id

WHERE

born IN (SELECT premiered FROM titles WHERE primary_title == "The Prestige")

AND (category == "actor" OR category == "actress")

ORDER BY name;



	COUNT(DISTINCT people.person_id)
1	30

Question 8

WITH rose_titles AS (SELECT DISTINCT(c.title_id)

FROM people AS P

```

JOIN crew AS c ON c.person_id = p.person_id
WHERE category = 'actress' AND name LIKE 'Rose%'
), rose_directors AS (SELECT DISTINCT(p.person_id)
FROM people AS p
JOIN crew AS c ON c.person_id = p.person_id
WHERE
c.category = 'director'AND c.title_id IN rose_titles
)
SELECT name
FROM people AS p
JOIN rose_directors AS rd ON rd.person_id = p.person_id
ORDER BY name ASC;

```

Grid view

Form view

1

Total rows loaded: 68

	name
1	Aimé Forget
2	Albert Zugsmith
3	Alex Schead
4	Anthony Barajas
5	Anthony Parker
6	Asad Panjwani
7	Bill Hitchcock
8	Bruce Kessler
9	Charles Beeson
10	Colin Barr
11	Cullen McGraw
12	Daniel Leahey

Question 10 (used chatgpt now have a idea about cte storing different datatypes

```

WITH json_table(json_data) AS ( SELECT c.characters as json_data

```

```

FROM

```

```

people AS p,


```


```


        crew AS c
WHERE
        p.name = "Leonardo DiCaprio"
        AND p.born = 1974
        AND p.person_id = c.person_id
ORDER BY
        c.characters
),
characters(character) AS (
        SELECT
                DISTINCT value as character
        FROM
                json_table,
                json_each(json_table.json_data)
        WHERE
                character <> ""
                AND character NOT LIKE "%SELF%"
        ORDER BY
                character
)
SELECT
        GROUP_CONCAT(character)
FROM
        characters;


```


Grid view Form view














1







Total rows loaded: 1

GROUP_CONCAT(character)

1 Alex,Amsterdam Vallon,Arnie Grape,Arthur Rimbaud,Billy,Brandon Darrow,Bud,Calvin Candie,Child,Cobb,Danny...