Q2

```sql
SELECT
    premiered,
    primary_title || ' (' || original_title || ')' AS title
FROM
    titles
WHERE
    genres LIKE '%Action%'
    AND original_title != primary_title
ORDER BY
    premiered DESC,
    primary_title ASC
LIMIT 10;
```

```
sqlite> SELECT
   ...>     premiered,
   ...>     primary_title || ' (' || original_title || ')' AS title
   ...> FROM
   ...>     titles
   ...> WHERE
   ...>     genres LIKE '%Action%'
   ...>     AND original_title != primary_title
   ...> ORDER BY
   ...>     premiered DESC,
   ...>     primary_title ASC
   ...> LIMIT 10;
2027|The Adventures of Tintin: Red Rackham's Treasure (Untitled Adventures of Tintin Sequel)
2023|Star Wars: Rogue Squadron (Rogue Squadron)
2022|ASSASSINATORS: Vendetta (Assassinators: Vendetta)
2022|Cyber Heist (Dyun mong)
2022|Detective vs. Sleuths (San taam daai zin)
2022|Dragon Ball Super: Super Hero (Doragon boru supa supa hiro)
2022|Estab Life: Great Escape (Esutabu Raifu Gureito Eukepu)
2022|Fullmetal Alchemist: Final Transmutation (Hagane no Renkinjutsushi: Kanketsu-hen - Saigo no Rensei)
2022|Kamen Rider OOO 10th: The Core Medals of Resurrection (Kamen Raidâ Ôzu 10th: Fukkatsu no Coa Medaru)
2022|Khuda Haafiz Chapter 2 Agni Pariksha (Khuda Haafiz Chapter II: Agni Pariksha)
sqlite>
```

Q3

```sql
SELECT
   ...>     primary_title || '|' || (CASE
   ...>         WHEN ended IS NULL THEN 2023 - premiered
   ...>         ELSE ended - premiered
   ...>     END) AS title_years_running
   ...> FROM
   ...>     titles
   ...> WHERE
   ...>     premiered IS NOT NULL
   ...>     AND type = 'tvSeries'  -- Ensure the type is TV
```

```
  ...> ORDER BY
  ...>   (CASE
  ...>       WHEN ended IS NULL THEN 2023 - premiered
  ...>       ELSE ended - premiered
  ...>   END) DESC,
  ...>   primary_title ASC
  ...> LIMIT 20;
```

```
sqlite>  SELECT
   ...>         primary_title || '|' || (CASE
   ...>             WHEN ended IS NULL THEN 2023 - premiered
   ...>             ELSE ended - premiered
   ...>         END) AS title_years_running
   ...>    FROM
   ...>        titles
   ...>    WHERE
   ...>        premiered IS NOT NULL
   ...>        AND type = 'tvSeries'  -- Ensure the type is TV
   ...>    ORDER BY
   ...>        (CASE
   ...>            WHEN ended IS NULL THEN 2023 - premiered
   ...>            ELSE ended - premiered
   ...>        END) DESC,
   ...>        primary_title ASC
[  ...>     LIMIT 20;
Looney Tunes|93
Alice Remsen|92
Hints for Swimmers|92
Robert Campbell|91
Talkie Songs|91
Messeanimals|88
1937 Coronation|86
Sports Review|86
The Disorderly Room|86
Craftsmen at Work|85
Looney Tunes|84
WNBC-TV News|82
Johnny Olson's Rumpus Room|77
Party Line|77
See What You Know|77
Broadway Spotlight|76
Play the Game|76
WJLA ABC 7 News|76
Allen and Kendal|75
Barney Blake, Police Reporter|75
sqlite>
```

Q4

```
SELECT
  (born/10)*10 || 's' AS decade,
  COUNT(DISTINCT people.person_id) AS num_directors
FROM
  people
JOIN
  crew ON people.person_id = crew.person_id
WHERE
  crew.category = 'director'
  AND people.born >= 1900
```

```
GROUP BY
  decade
ORDER BY
  decade;
```

```
sqlite> SELECT
   ...>      (born/10)*10 || 's' AS decade,
   ...>      COUNT(DISTINCT people.person_id) AS num_directors
   ...> FROM
   ...>      people
   ...> JOIN
   ...>      crew ON people.person_id = crew.person_id
   ...> WHERE
   ...>      crew.category = 'director'
   ...>      AND people.born >= 1900
   ...> GROUP BY
   ...>      decade
   ...> ORDER BY
   ...>      decade;

1900|376
1910|389
1920|721
1930|810
1940|999
1950|1084
1960|1625
1970|2151
1980|1884
1990|745
2000|86
2010|1
2020|1
sqlite>
sqlite>
```

Q5

```sql
SELECT
    titles.type,
    ROUND(AVG(ratings.rating), 2) AS avg_rating,
    ROUND(MIN(ratings.rating), 2) AS min_rating,
    ROUND(MAX(ratings.rating), 2) AS max_rating
FROM
    akas
JOIN
    ratings ON akas.title_id = ratings.title_id
JOIN
    titles ON akas.title_id = titles.title_id
WHERE
    (akas.types = 'imdbDisplay' OR akas.types = 'original')
    AND akas.language = 'de'
GROUP BY
    titles.type
ORDER BY
    avg_rating;
```

```
sqlite> SELECT
   ...>         titles.type,
   ...>         ROUND(AVG(ratings.rating), 2) AS avg_rating,
   ...>         ROUND(MIN(ratings.rating), 2) AS min_rating,
   ...>         ROUND(MAX(ratings.rating), 2) AS max_rating
   ...>     FROM
   ...>         akas
   ...>     JOIN
   ...>         ratings ON akas.title_id = ratings.title_id
   ...>     JOIN
   ...>         titles ON akas.title_id = titles.title_id
   ...>     WHERE
   ...>         (akas.types = 'imdbDisplay' OR akas.types = 'original')
   ...>         AND akas.language = 'de'
   ...>     GROUP BY
   ...>         titles.type
   ...>     ORDER BY
   ...>         avg_rating;
movie|6.65|3.4|8.2
tvMovie|6.77|5.5|7.3
tvEpisode|6.9|6.9|6.9
short|7.12|5.0|8.1
tvMiniSeries|7.2|7.2|7.2
videoGame|7.2|7.2|7.2
tvSeries|7.63|7.0|8.5
sqlite>
```

Q6

```sql
SELECT people.name, ROUND(AVG(ratings.rating), 2) AS avg_rating

FROM people

JOIN crew ON people.person_id = crew.person_id

JOIN ratings ON crew.title_id = ratings.title_id

WHERE crew.characters LIKE '%Batman%'

GROUP BY people.name

ORDER BY avg_rating DESC

LIMIT 10;
```

```
...>    SELECT * FROM crew
...>    WHERE characters LIKE '%Batman%'
...> )
...> SELECT people.name, ROUND(AVG(ratings.rating), 2) AS avg_rating
...> FROM people
...> JOIN batman_crew ON people.person_id = batman_crew.person_id
...> JOIN ratings ON batman_crew.title_id = ratings.title_id
...> GROUP BY people.name
...> ORDER BY avg_rating DESC
...> LIMIT 10;
Doug Walker|7.8
David Mazouz|7.8
Fábio Coutinho|7.5
Kevin Michael Richardson|7.3
Lionel Abelanski|6.8
Jason O'Mara|6.7
Dewayne Bontrager|6.6
Bryan Porter|6.5
Jordan Glindomrong|3.4
sqlite>
```

Q7

```sql
SELECT  COUNT(DISTINCT people.person_id)
FROM people
JOIN crew ON people.person_id = crew.person_id
JOIN titles ON crew.title_id = titles.title_id
WHERE people.born = (SELECT premiered FROM titles WHERE primary_title Like 'The Prestige' LIMIT 1);
```

```
sqlite> SELECT  COUNT(DISTINCT people.person_id)
   ...> FROM people
   ...> JOIN crew ON people.person_id = crew.person_id
   ...> JOIN titles ON crew.title_id = titles.title_id
[  ...> WHERE people.born = (SELECT premiered FROM titles WHERE primary_title Like 'The Prestige' LIMIT 1);
19
sqlite>
```

Q8

```
SELECT DISTINCT people.name as names

FROM people

JOIN crew ON crew.person_id = people.person_id

JOIN titles ON titles.title_id = crew.title_id

WHERE crew.category = 'director'

AND titles.title_id IN (

  SELECT title_id

  FROM crew

  JOIN people ON crew.person_id = people.person_id

  WHERE people.name LIKE '%Rose%' AND crew.category = 'actress'

)

order by names;
```

```
sqlite> SELECT DISTINCT people.name as names
   ...> FROM people
   ...> JOIN crew ON crew.person_id = people.person_id
   ...> JOIN titles ON titles.title_id = crew.title_id
   ...> WHERE crew.category = 'director'
   ...> AND titles.title_id IN (
   ...>   SELECT title_id
   ...>   FROM crew
   ...>   JOIN people ON crew.person_id = people.person_id
   ...>   WHERE people.name LIKE 'NRoseN' AND crew.category = 'actress'
   ...> )
   ...> order by names;
Aimé Forget
Ana Lorena Pérez Ríos
Andy Cadiff
Anne Fukov
Ben Kellett
Benjamin Balistreri
Britney Foster
Chico Wang
Darin Ferriola
Dave Thomas
David Navarro
Dennis Vance
Diane Cheklich
Doug Rogers
Eberhard Itzenplitz
Evan Tramel
Fernando Nesme
Gonzalo Martínez Ortega
James Avalon
James Crow
Jaysen P. Buterin
John Delbridge
Johnavon Miller
Julia Godley
Keir Siewert
Leopoldo Torres Ríos
Lili Garza
Mark Edgar Stephens
Matthew Toffolo
Nick Wauters
Nigel Hartwell
Pat Kusnadi
Paul Woodcrest
Peter Blackburn
Reginald Collin
Richard Kern
Rick Shameless
Robbie Lopez
Sage Christian Drake
Sam Leifer
Simon Delaney
Simon Rubenstein
Stefani Saintonge
Travis Beacham
Vere Lorrimer
Xin Xin Xiong
sqlite>
sqlite>
```

Q9

```
WITH ranked_artists AS (

  SELECT
```

```sql
    crew.category,
    people.name,
    people.died,
    titles.primary_title,
    titles.runtime_minutes,
    ROW_NUMBER() OVER (
      PARTITION BY crew.category
      ORDER BY
        people.died,
        people.name
    ) AS category_rank,
    ROW_NUMBER() OVER (
      PARTITION BY crew.category,
      people.name
      ORDER BY
        titles.runtime_minutes DESC,
        titles.title_id
    ) AS runtime_rank
  FROM
    people
    JOIN crew AS crew ON people.person_id = crew.person_id
    JOIN titles ON crew.title_id = titles.title_id
  WHERE
    people.died IS NOT NULL
    AND titles.runtime_minutes IS NOT NULL
)
SELECT
  category,
  name,
  died,
  primary_title AS longest_work_title,
  runtime_minutes AS work_runtime,
  category_rank
FROM
  ranked_artists
WHERE
  runtime_rank = 1
  AND category_rank <= 5
ORDER BY
  category,
```

```
...> SELECT
...>    category,
...>    name,
...>    died,
...>    primary_title AS longest_work_title,
...>    runtime_minutes AS work_runtime,
...>    category_rank
...> FROM
...>    ranked_artists
...> WHERE
...>    runtime_rank = 1
...>    AND category_rank <= 5
...> ORDER BY
...>    category,
...>    died,
...>    name;
actor|Verner Clarges|1911|A Summer Idyll|17|1
actress|Mrs. E.M. Kimball|1919|The Delayed Letter|11|1
actress|Clarine Seymour|1920|The Idol Dancer|104|2
actress|Katherine Griffith|1921|Huckleberry Finn|70|3
archive_footage|Grand Duchess Alice|1878|Constraint|59|1
archive_footage|King Edward VII|1910|The House of Windsor|90|2
archive_footage|George Westinghouse|1914|Nikola Tesla: Mad Scientist of the Gilded Age|9|5
archive_sound|Charles Cabell|1971|JFK: Part 1|113|1
archive_sound|John Litel|1972|Old Glory|9|2
archive_sound|James MacDonald|1991|Hunger Strife|6|3
archive_sound|Marcellite Garner|1993|Get a Horse!|6|4
archive_sound|Ingmar Bergman|2007|Biografens utveckling 1911-1930|91|5
cinematographer|Dent Gilbert|1917|Sacrifice|50|1
cinematographer|Wallace McCutcheon|1918|Discovery of Bodies|2|3
cinematographer|Carl-Gustaf Florin|1920|Mästerkatten i stövlar|109|4
composer|Domenico Cimarosa|1801|Italians and Other Strangers|76|1
composer|Tyagaraya Swamy|1847|Thyagayya|143|2
composer|Frédéric Chopin|1849|Première année|75|3
director|Sofus Wolder|1914|A Good Catch|12|1
director|Nino Oxilia|1917|Satan's Rhapsody|55|2
director|Wallace McCutcheon|1918|Old Isaacs, the Pawnbroker|10|4
editor|Della M. King|1935|The Avenging Rider|60|1
editor|George Nichols Jr.|1939|The Silver Cord|74|4
producer|Louis Burstein|1923|His Day Out|20|1
producer|Thomas H. Ince|1924|Hail the Woman|80|4
production_designer|Erich Czerwonski|1940|Der Boxstudent|12|1
production_designer|Valerian Sidamon-Eristavi|1943|Nakhvamdis|68|2
production_designer|Wilfred Buckland|1946|The Devil-Stone|60|3
production_designer|Serge Piménoff|1960|Variety|100|4
self|François Félix Faure|1899|Voyage de M. le Président de la République Félix Faure en Vendée: bal des Sablaises, Les Sables-d'Olonne|1|1
self|Christian IX|1906|Kejser Wilhelms ankomst til København 1905|2|2
self|Charles Goodwin|1912|Titanic's Unknown Child|22|5
writer|Petronius|66|Fellini Satyricon|129|1
writer|Suetonius|140|Cleopatra|192|2
writer|Giovanni Boccaccio|1375|Decameron Nights|100|3
sqlite>
```

Q10