Q1)Which categories of movies released in 2018? Fetch with the number of movies.

Soln.

Part 1 :-

```
SELECT title
FROM film
WHERE release_year = '2018';
```

Part 2 :-

```
SELECT COUNT(film_id) AS total_movies

FROM film

WHERE release_year = '2018';
```

Q2)Update the address of actor id 36 to "677 Jazz Street". Soln.

```
UPDATE address
   LEFT JOIN actor ON address.address_id = actor.address_id

SET address.address = '677 Jazz Street'

WHERE actor.actor_id = 36;
```

Q3)Add the new actors (id : 105 , 95) in film ARSENIC INDEPENDENCE (id:41).

Soln.

```
INSERT INTO film_actor(actor_id, film_id)
VALUES (105, 41),
(95, 41);
```

Q4)Get the name of films of the actors who belong to India.

Soln.

```
SELECT DISTINCT(f.title)

FROM film f

INNER JOIN film_actor fa ON f.film_id = fa.film_id

INNER JOIN actor a ON fa.actor_id = a.actor_id

INNER JOIN address ad ON a.address_id = ad.address_id

INNER JOIN city c ON ad.city_id = c.city_id

INNER JOIN country ct ON c.country_id = ct.country_id

WHERE country = 'India';
```

Q5)How many actors are from the United States? Soln.

```
SELECT COUNT(actor_id) AS total_count

FROM actor a

INNER JOIN address ad ON a.address_id = ad.address_id

INNER JOIN city c ON ad.city_id = c.city_id

INNER JOIN country ct ON c.country_id = ct.country_id

WHERE country = 'United States';
```

Q6)Get all languages in which films are released in the year between 2001 and 2010.

Soln.

```
SELECT DISTINCT l.name

FROM language l

INNER JOIN film f ON l.language_id = f.language_id

WHERE f.release_year BETWEEN '2001' AND '2010';
```

Q7) The film ALONE TRIP (id:17) was actually released in Mandarin, update the info.

Soln.

```
UPDATE film f
    INNER JOIN language 1 ON f.language_id = l.language_id

SET l.name = 'Mandarin'

WHERE title = 'ALONE TRIP'

AND f.film_id = 17;
```

Q8)Fetch cast details of films released during 2005 and 2015 with PG rating. Soln.

```
SELECT a.actor_id,

CONCAT(a.first_name, ' ', a.last_name) AS full_name,
f.rating

FROM actor a

INNER JOIN film_actor fa ON a.actor_id = fa.actor_id

INNER JOIN film f ON fa.film_id = f.film_id

WHERE f.release_year BETWEEN 2005 AND 2015

AND rating = 'PG';
```

Q9)In which year most films were released? Soln.

```
SELECT release_year,

COUNT(release_year) AS total_count

FROM film

GROUP BY release_year

ORDER BY 2 DESC

LIMIT 1;
```

Q10)In which year least number of films were released? Soln.

```
SELECT release_year,

COUNT(release_year) AS total_count

FROM film

GROUP BY release_year

ORDER BY 2

LIMIT 1;
```

Q11)Get the details of the film with maximum length released in 2014. Soln.

```
SELECT film_id,
   title,
   release_year,
   length
FROM film
WHERE length = (
     SELECT MAX(length)
     FROM film
)
AND release_year = 2014;
```

Q12)Get all Sci-Fi movies with NC-17 ratings and language they are screened in. Soln.

```
SELECT DISTINCT f.film_id,
  f.title,
  l.name,
  c.name,
  f.rating
FROM film f
  INNER JOIN language l ON f.language_id = l.language_id
  INNER JOIN film_category fg ON f.film_id = fg.film_id
  INNER JOIN category c ON fg.category_id = c.category_id
WHERE f.rating = 'NC-17'
AND c.name = 'Sci-Fi';
```

Q13)The actor FRED COSTNER (id:16) shifted to a new address:055, Piazzale Michelangelo, Postal Code-50125, District-Rifredi at Florence, Italy Insert the new city and update the address of the actor. Soln.

Q14)A new film "No Time to Die" is releasing in 2020 whose details are:

Title:-No Time to Die

Description: Recruited to rescue a kidnapped scientist, globe-trotting spy James Bond finds himself hot on the trail of a mysterious villain, who's armed with a dangerous new technology.

Language: English

Length: 100

Rental duration: 6 Rental rate: 3.99 Rating: PG-13

Replacement cost: 20.99

Special Features = Trailers, Deleted Scenes

Insert the above data.

Soln.

```
INSERT INTO film (
      title,
      release_year,
      language_id,
      original_language_id,
      rating,
      special features
himself hot on the trail of a mysterious villain, who's armed with a dangerous new
technology.",
          SELECT language_id
          SELECT language_id
```

```
20.99,
'Trailers, Deleted Scenes'
);
```

Q15) Assign the category Action, Classics, Drama to the movie "No Time to Die". Soln.

```
INSERT INTO film_category (film_id, category_id)
VALUES (
          SELECT category_id
          FROM category
          SELECT category_id
          FROM category
          SELECT category_id
```

```
FROM category
WHERE name = 'Drama'
)
```

Q16)Assign the cast: PENELOPE GUINESS, NICKWAHLBERG, JOE SWANK to the movie "NoTime to Die". Soln.

```
FROM film
FROM film
```

```
FROM actor

WHERE actor.first_name = "JOE"

AND actor.last_name = "SWANK"

),

(

SELECT film_id

FROM film

WHERE film.title = "No Time to Die"

)

);
```

Q17)Assign a new category Thriller to the movie ANGELS LIFE. Soln.

Q18) Which actor acted in most movies? Soln.

```
SELECT a.actor_id,
    a.first_name,
    a.last_name,
    COUNT(a.actor_id) AS total_movies_acted
FROM actor a
```

```
INNER JOIN film_actor fa ON a.actor_id = fa.actor_id

GROUP BY 1,

2,

3

ORDER BY 4 DESC

LIMIT 1;
```

Q19)The actor JOHNNY LOLLOBRIGIDA was removed from the movie GRAIL FRANKENSTEIN. How would you update that record? Soln.

```
DELETE FROM film_actor

WHERE actor_id = (

SELECT actor_id

FROM actor

WHERE first_name = 'JOHNNY'

AND last_name = 'LOLLOBRIGIDA'
)

AND film_id = (

SELECT film_id

FROM film

WHERE title = 'GRAIL FRANKENSTEIN'
);
```

Q20)The HARPER DYING movie is an animated movie with Drama and Comedy. Assign these categories to the movie. Soln.

```
SELECT category_id
FROM category
WHERE name = 'Drama'
)
),
(

(
    SELECT film_id
    FROM film
    WHERE title = 'HARPER DYING'
),
(
    SELECT category_id
    FROM category
    WHERE name = 'Comedy'
);
```

Q21) The entire cast of the movieWEST LION has changed. The new actors are DAN TORN, MAE HOFFMAN, SCARLETT DAMON. How would you update the record in the safest way? Soln.

```
FROM film
```

Q22)The entire category of the movie WEST LION was wrongly inserted. The correct categories are Classics, Family, Children. How would you update the record ensuring no wrong data is left?

Soln.

```
DELETE FROM film_category

WHERE film_id = (

SELECT film_id

FROM film
```

```
WHERE title = 'WEST LION'
INSERT INTO film_category (film_id, category_id)
          SELECT category_id
          FROM category
          FROM category
          SELECT category_id
          FROM category
```

Q23)How many actors acted in films released in 2017? Soln.

```
SELECT COUNT(fa.actor_id) AS total_count

FROM film f

INNER JOIN film_actor fa ON f.film_id = fa.film_id

WHERE release_year = 2017;
```

Q24)How many Sci-Fi films released between the year 2007 to 2017? Soln.

```
SELECT COUNT(f.film_id) AS total_movies_released

FROM film f

INNER JOIN film_category fg ON f.film_id = fg.film_id

INNER JOIN category c ON fg.category_id = c.category_id

WHERE c.name = 'Sci-Fi'

AND f.release_year BETWEEN 2007 AND 2017;
```

Q25)Fetch the actors of the movie WESTWARD SEABISCUIT with the city they live in.

Soln.

```
SELECT f.title,

CONCAT(a.first_name, ' ', a.last_name) AS full_name,

c.city

FROM film f

INNER JOIN film_actor fa ON f.film_id = fa.film_id

INNER JOIN actor a ON fa.actor_id = a.actor_id

INNER JOIN address ad ON a.address_id = ad.address_id

INNER JOIN city c ON ad.city_id = c.city_id

WHERE f.title = 'WESTWARD SEABISCUIT';
```

Q26) What is the total length of all movies played in 2008? Soln.

```
SELECT SUM(length) AS total_length
FROM film
WHERE release_year = 2008;
```

Q27)Which film has the shortest length? In which language and year was it released?
Soln.

```
SELECT f.title,
    l.name,
    f.release_year,
    f.length
FROM film f
    INNER JOIN language l ON f.language_id = l.language_id
WHERE f.length = (
        SELECT MIN(length)
        FROM film
);
```

Q28)How many movies were released each year? Soln.

```
SELECT release_year,

COUNT(film_id) AS movies_released_yearly

FROM film

GROUP BY 1

ORDER BY 1;
```

Q29)How many languages of movies were released each year? Soln.

```
SELECT release_year,
language.name,
COUNT(film.language_id) AS number_of_films
```

```
FROM `film`
   INNER JOIN language ON language.language_id = film.language_id

GROUP BY 1,
   film.language_id

ORDER BY 1;
```

Q30)Which actor did least movies? Soln.

```
SELECT a.actor_id,
   a.first_name,
   a.last_name,
   COUNT(a.actor_id) AS total_movies_acted
FROM actor a
   INNER JOIN film_actor fa ON a.actor_id = fa.actor_id
GROUP BY 1,
   2,
   3
ORDER BY 4
LIMIT 1;
```