



escuela
británica de
artes creativas
y tecnología

Avance de Proyecto parte 4



Científico de Datos

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20250330

--1. Vamos a seleccionar el nombre y apellido de los actores

```
SELECT
    first_name,
    last_name
FROM actor;
```

	first_name character varying (45)	last_name character varying (45)
1	Penelope	Guinness
2	Nick	Wahlberg
3	Ed	Chase
4	Jennifer	Davis
5	Johnny	Lollobrigida
6	Bette	Nicholson
7	Grace	Mostel
8	Matthew	Johansson
9	Joe	Swank
10	Christian	Gable
11	Zero	Cage

--2. Vamos a seleccionar el nombre completo del actor en una sola columna

```
SELECT
    CONCAT(first_name, ' ', last_name) AS nombre_completo
FROM
    public.actor;
```

Showing rows: 1 to 200  Pag

	nombre_completo text
1	Penelope Guinness
2	Nick Wahlberg
3	Ed Chase
4	Jennifer Davis
5	Johnny Lollobrigida
6	Bette Nicholson
7	Grace Mostel
8	Matthew Johansson
9	Joe Swank


--3. Selecciona los actores que su nombre empieza con "D"

```
SELECT
    first_name,
    last_name
FROM actor
WHERE first_name like 'D%';
```

	first_name character varying (45)	last_name character varying (45)
1	Dan	Torn
2	Dan	Harris
3	Dustin	Tautou
4	Daryl	Wahlberg
5	Dan	Streep
6	Daryl	Crawford
7	Debbie	Akroyd

--4. ¿Tenemos algún actor con el mismo nombre?

```
SELECT
    first_name,
    COUNT(*) AS cantidad
FROM
    public.actor
GROUP BY
    first_name
HAVING
    COUNT(*) > 1;
```

Showing rows: 1 to 52  Page No: 1

	first_name character varying (45)	cantidad bigint
1	Christian	3
2	Kenneth	4
3	Cameron	3
4	Spencer	2
5	Humphrey	2
6	Audrey	2
7	Fay	3
8	Susan	2
9	Michael	2

--5. ¿Cuál es el costo máximo de renta de una película?

```
SELECT
    MAX (amount)
FROM payment;
```

	max numeric
1	11.99

--6. ¿Cuáles son las películas que fueron rentadas con ese costo?

```
SELECT
    f.title AS pelicula,
    p.amount AS costo,
    r.rental_date AS fecha_renta
FROM
    public.payment p
JOIN
    public.rental r ON p.rental_id = r.rental_id
JOIN
    public.inventory i ON r.inventory_id = i.inventory_id
JOIN
    public.film f ON i.film_id = f.film_id
WHERE
    p.amount = 11.99;
```

	pelicula character varying (255) 🔒	costo numeric (5,2) 🔒	fecha_renta timestamp without time zone 🔒
1	Sting Personal	11.99	2005-08-21 23:28:58
2	Trap Guys	11.99	2005-08-22 23:48:56
3	Flintstones Happiness	11.99	2005-08-21 23:34:00
4	Scorpion Apollo	11.99	2005-08-23 22:19:33
5	Ties Hunger	11.99	2005-08-02 22:18:13
6	Mine Titans	11.99	2005-07-07 20:45:51
7	Midsummer Groundhog	11.99	2005-07-06 22:58:31
8	Scorpion Apollo	11.99	2005-07-29 22:37:41

--7. ¿Cuántas películas hay por el tipo de audiencia (rating)?

```
SELECT
    rating,
    COUNT(*) AS cantidad_peliculas
FROM
    film
GROUP BY
    rating
ORDER BY
    cantidad_peliculas DESC;
```

	rating mpaa_rating 🔒	cantidad_peliculas bigint 🔒
1	PG-13	223
2	NC-17	210
3	R	195
4	PG	194
5	G	178

--8. Selecciona las películas que no tienen un rating R o NC-17

```
SELECT
    title,
    rating
FROM
    film
WHERE
    rating NOT IN ('R', 'NC-17');
```

	title character varying (255)	rating mpaa_rating
1	Bright Encounters	PG-13
2	Academy Dinosaur	PG
3	Ace Goldfinger	G
4	Affair Prejudice	G
5	African Egg	G
6	Agent Truman	PG
7	Airplane Sierra	PG-13
8	Alabama Devil	PG-13
9	Alamo Videotape	G

--9. ¿Cuántos clientes hay en cada tienda?

```
SELECT
    store_id,
    COUNT(*) AS cantidad_clientes_activos
FROM
    public.customer
WHERE
    active = 1
GROUP BY
    store_id;
```

	store_id smallint	cantidad_clientes_activos bigint
1	1	318
2	2	266

--10. ¿Cuál es la película que más veces se rentó?

```
SELECT
    f.title AS pelicula,
    COUNT(r.rental_id) AS veces_rentada
FROM
    public.rental r
JOIN
    public.inventory i ON r.inventory_id = i.inventory_id
JOIN
    public.film f ON i.film_id = f.film_id
GROUP BY
    f.title
ORDER BY
    veces_rentada DESC
LIMIT 1;
```

	pelicula character varying (255)	veces_rentada bigint
1	Bucket Brotherhood	34

--11. ¿Qué películas no se han rentado?

```
SELECT
    f.title AS pelicula
FROM
    public.film f
LEFT JOIN
    public.inventory i ON f.film_id = i.film_id
LEFT JOIN
    public.rental r ON i.inventory_id = r.inventory_id
WHERE
    r.rental_id IS NULL;
```

	pelicula character varying (255)
1	Academy Dinosaur
2	Sky Miracle
3	Kill Brotherhood
4	Sister Freddy
5	Gladiator Westward
6	Floats Garden
7	Apollo Teen
8	Crystal Breaking
9	Hocus Frida

--12. ¿Qué clientes no han rentado ninguna película?

```
SELECT
    c.customer_id,
    c.first_name,
    c.last_name
FROM
    public.customer c
WHERE
    c.customer_id NOT IN (
        SELECT r.customer_id
        FROM public.rental r
    );
```

	customer_id [PK] integer	first_name character varying (45)	last_name character varying (45)
--	-----------------------------	--------------------------------------	-------------------------------------

--13. ¿Qué actores han actuado en más de 30 películas?

```
SELECT
    a.actor_id,
    a.first_name,
    a.last_name,
    COUNT(fa.film_id) AS cantidad_peliculas
FROM
    public.actor a
JOIN
    public.film_actor fa ON a.actor_id = fa.actor_id
GROUP BY
    a.actor_id,
    a.first_name,
    a.last_name
HAVING
    COUNT(fa.film_id) > 30
ORDER BY
    cantidad_peliculas DESC;
```

	actor_id [PK] integer	first_name character varying (45)	last_name character varying (45)	cantidad_peliculas bigint
1	107	Gina	Degeneres	42
2	102	Walter	Torn	41
3	198	Mary	Keitel	40
4	181	Matthew	Carrey	39
5	23	Sandra	Kilmer	37
6	81	Scarlett	Damon	36
7	144	Angela	Witherspoon	35
8	37	Val	Bolger	35
9	158	Vivien	Basinger	35
10	13	Uma	Wood	35
11	106	Groucho	Dunst	35
12	60	Henry	Berry	35
13	65	Anqela	Hudson	34

--14. Muestra las ventas totales por tienda

```
SELECT
    c.store_id,
    SUM(p.amount) AS ventas_totales
FROM
    public.payment p
JOIN
    public.customer c ON p.customer_id = c.customer_id
GROUP BY
    c.store_id
ORDER BY
    ventas_totales DESC;
```

	store_id smallint	ventas_totales numeric
1	1	33621.42
2	2	27690.62

--15. Muestra los clientes que rentaron una película más de una vez

with a as

```
WITH RentasPorCliente AS (  
    SELECT  
        r.customer_id,  
        i.film_id,  
        COUNT(*) AS veces_rentada  
    FROM  
        public.rental r  
    JOIN  
        public.inventory i ON r.inventory_id = i.inventory_id  
    GROUP BY  
        r.customer_id, i.film_id  
    HAVING  
        COUNT(*) > 1  
)  
SELECT  
    c.customer_id,  
    c.first_name,  
    c.last_name,  
    f.title AS pelicula,  
    r.veces_rentada  
FROM  
    RentasPorCliente r  
JOIN  
    public.customer c ON r.customer_id = c.customer_id  
JOIN  
    public.film f ON r.film_id = f.film_id  
ORDER BY  
    r.veces_rentada DESC;
```


	customer_id integer	first_name character varying (45)	last_name character varying (45)	pelicula character varying (255)	veces_rentada bigint
1	122	Thelma	Murray	Disciple Mother	3
2	376	Randy	Gaither	Detective Vision	3
3	314	George	Linton	Caddyshack Jedi	3
4	317	Edward	Baugh	Flatliners Killer	3
5	562	Wallace	Slone	Fiction Christmas	2
6	296	Ramona	Hale	Stagecoach Armageddon	2
7	260	Christy	Vargas	Eagles Panky	2
8	366	Brandon	Huey	Fellowship Autumn	2
9	468	Tim	Cary	Whisperer Giant	2
10	408	Manuel	Murrell	Graduate Lord	2
11	287	Becky	Miles	Campus Remember	2
12	414	Vincent	Ralston	Sinners Atlantis	2
13	47	Frances	Parker	American Circus	2
14	270	Leah	Curtis	Saddle Antitrust	2
15	64	Judith	Cox	Masked Bubble	2