

Sprint_2

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► NIVEL 1

Ejercicio 1

agregu screenshot tablas y descripción columns

En la base de datos “transactions” hay dos tablas:

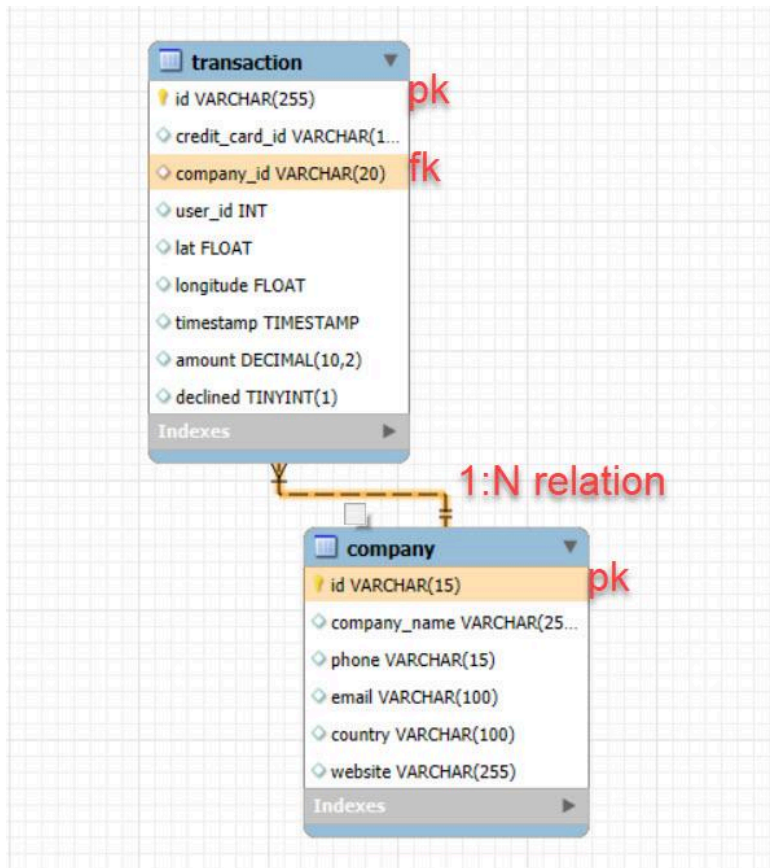
- company
- transaction

Relación

Son conectadas entre ellas con una relación 1:N (uno a muchos, a través de la primary key “id” contenida en la tabla “company” que se conecte a la foreign key “company_id” contenida en la tabla “transaction”.

O sea: una empresa puede tener más transacciones; cada transacción está conectada a una sola empresa.

Schema ER:



La tabla “company” funciona como tabla de dimensión, mientras la tabla “transaction” funciona como tabla de hechos.

Estructura de los datos

Tabla “company”

estructura datos dades_introduir_sprint2 sprint_2* Exercizi_subqueries_3_conAI

```

1 • USE transactions;
2
3 • SELECT *
4   FROM company
5  LIMIT 5;

```

| id | company_name | phone | email | country | website |
|--------|-----------------------------|----------------|----------------------------------|---------------|--------------------------------|
| b-2222 | Ac Fermentum Incorporated | 06 85 56 52 33 | donec.porttitor.tellus@yahoo.net | Germany | https://instagram.com/site |
| b-2226 | Magna A Neque Industries | 04 14 44 64 62 | risus.donec.nibh@icloud.org | Australia | https://whatsapp.com/group/9 |
| b-2230 | Fusce Corp. | 08 14 97 58 85 | risus@protonmail.edu | United States | https://pinterest.com/sub/cars |
| b-2234 | Convallis In Incorporated | 06 66 57 29 50 | mauris.ut@aol.couk | Germany | https://cnn.com/user/110 |
| b-2238 | Ante Iaculis Nec Foundation | 08 23 04 99 53 | sed.dictum.proin@outlook.ca | New Zealand | https://netflix.com/settings |
| NULL | NULL | NULL | NULL | NULL | NULL |

company 1 × Apply Revert

Column count: 6

Row count: 100

Columns:

| | | |
|------------------|--------------|----|
| <u>id</u> | varchar(15) | PK |
| company_name | varchar(255) | |
| phone | varchar(15) | |
| email | varchar(100) | |
| country | varchar(100) | |
| website | varchar(255) | |

Tabla “transaction”

The screenshot shows a database management tool interface. At the top, there are tabs for 'estructura datos', 'dades_introduir_sprint2', 'sprint_2', 'Esercizi_subqueries_3_conAI', and 'transactions.company'. Below the tabs is a toolbar with various icons. The main area contains a SQL query editor with the following text:

```

SELECT *
FROM transaction
LIMIT 5;

```

Below the query editor is a 'Result Grid' showing the results of the query. The grid has 9 columns: id, credit_card_id, company_id, user_id, lat, longitude, timestamp, amount, and declined. The first five rows show data, and the last row shows NULL values for all columns.

| id | credit_card_id | company_id | user_id | lat | longitude | timestamp | amount | declined |
|--------------------------------------|----------------|------------|---------|---------|-----------|---------------------|--------|----------|
| 00043A49-2949-494B-A5DD-A5BAE3BB19DD | CcS-9294 | b-2458 | 4713 | 46.1999 | 1.43554 | 2024-08-28 07:16:46 | 395.43 | 0 |
| 000447FE-B650-4DCB-85DE-C7ED0EE1CAAD | CcS-5019 | b-2370 | 438 | 41.5972 | 12.2218 | 2016-12-21 20:07:18 | 155.63 | 0 |
| 00045D68-ED2E-4F2F-8186-CEE074D875D0 | CcS-6699 | b-2390 | 2118 | 29.7573 | -95.3796 | 2020-07-14 15:37:45 | 326.01 | 0 |
| 000481C3-1C26-4FEF-83A0-4CD0EB004BBD | CcS-6696 | b-2230 | 2115 | 53.5489 | -113.503 | 2017-09-04 19:44:53 | 161.60 | 0 |
| 00051AA4-9CBE-4268-B070-C38062A1B3E2 | CcS-7606 | b-2266 | 3025 | 52.2084 | 5.69081 | 2017-01-05 18:19:25 | 148.91 | 0 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL |

At the bottom of the interface, there is a 'transaction 2' tab, an 'Apply' button, and a 'Revert' button.

Column count: 9
Row count: 100283

Columns:

| | | |
|-------------------|--------------|--|
| <u>id</u> | varchar(255) | PK |
| credit_card_id | varchar(15) | |
| company_id | varchar(20) | FK por la tabla company (company_id -> id) |
| user_id | int | |
| lat | float | |
| longitude | float | |
| timestamp | timestamp | |

| | |
|----------|---------------|
| amount | decimal(10,2) |
| declined | tinyint(1) |

Tipo de Variables

Reconozco también algunos tipos de variables que contienen la dos tablas:

- VARCHAR > es una cadena de texto (el número entre paréntesis nos dice cuantos caracteres puede contener como máximo).
- FLOAT > es un número con coma flotante
- INT > es un número entero
- TIMESTAMP > es una fecha y ora

Ejercicio 2

Utilizando JOIN realizarás las siguientes consultas:

- a) Listado de los países que están generando ventas.

The screenshot shows a database management tool interface. The top pane displays a SQL query for finding countries generating sales. The bottom pane shows the results of the query in a table format.

SQL Query:

```
-- NIVEL 1
-- Ejercici 2
-- CON JOIN
-- a) Listado de los países que están generando ventas
SELECT DISTINCT c.country AS country_con_ventas
FROM company AS c
INNER JOIN transaction AS t
ON c.id = t.company_id
WHERE declined = 0 -- que están generando ventas (tienen que ser "declined" = 0 = false)
ORDER BY country_con_ventas ASC; -- añadido para una mayor legibilidad
```

Results:

| country_con_ventas |
|--------------------|
| Australia |
| Belgium |
| Canada |
| China |
| France |
| Germany |
| Ireland |
| Italy |

Output Log:

| # | Time | Action | Message |
|---|----------|--|--------------------|
| 1 | 13:08:12 | SELECT DISTINCT c.country AS country_con_ventas FROM company AS c INNER JOIN transaction ... | 10 row(s) returned |

- b) Desde cuántos países se generan las ventas.

estructura dades dades_introduir_sprint2 sprint_2_b* Esercizi_Schema

Find Q| - nivel Done

```
21
22 -- b) Desde cuántos países se generan las ventas
23 • SELECT COUNT(DISTINCT country) AS n_paises_con_ventas
24 FROM company AS c
25 INNER JOIN transaction AS t
26 ON c.id = t.company_id
27 WHERE t.declined = 0; -- países que generan ventas
28
```

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

| n_paises_con_ventas |
|---------------------|
| 15 |

Result 58 x Read Only

Output

Action Output

| # | Time | Action | Message |
|-----|----------|---|-------------------|
| ✓ 1 | 13:08:52 | SELECT COUNT(DISTINCT country) AS n_paises_con_ventas FROM company AS c INNER JOIN tra... | 1 row(s) returned |

c) Identifica a la compañía con la mayor media de ventas.

estructura dades dades_introduir_sprint2 sprint_2_b* Esercizi_Schema

Find Q| - nivel Done

```
21
22 -- b) Desde cuántos países se generan las ventas
23 • SELECT COUNT(DISTINCT country) AS n_paises_con_ventas
24 FROM company AS c
25 INNER JOIN transaction AS t
26 ON c.id = t.company_id
27 WHERE t.declined = 0; -- países que generan ventas
28
```

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

| n_paises_con_ventas |
|---------------------|
| 15 |

Result 58 x Read Only

Output

Action Output

| # | Time | Action | Message |
|-----|----------|---|-------------------|
| ✓ 1 | 13:08:52 | SELECT COUNT(DISTINCT country) AS n_paises_con_ventas FROM company AS c INNER JOIN tra... | 1 row(s) returned |

Ejercicio 3

Utilizando sólo subconsultas (sin utilizar JOIN):

- a) Muestra todas las transacciones realizadas por empresas de Alemania.

Opcion 1 - con IN

The screenshot shows a database IDE with a SQL query editor and a result grid. The query is as follows:

```
-- Ejercicio 3
-- SIN JOIN
-- a) Muestra todas las transacciones realizadas por empresas de Alemania
-- OPCION 1 - SIN WHERE EXISTS
SELECT *
FROM transaction
WHERE company_id IN (
    SELECT
        id
    FROM company
    WHERE country = "Germany"
)
AND declined = 0
```

The result grid displays the following data:

| id | credit_card_id | company_id | user_id | lat | longitude | timestamp | amount | declined |
|--------------------------------------|----------------|------------|---------|---------|-----------|---------------------|--------|----------|
| 00138D38-206D-4C03-94B7-63A2676EB9B4 | CcS-4899 | b-2222 | 318 | 41.3781 | 12.447 | 2020-03-25 10:43:43 | 426.36 | 0 |
| 0013C1B6-3B84-4D6C-8154-E2B3FBCA8E9 | CcS-5070 | b-2222 | 489 | 41.3814 | 2.18176 | 2020-12-17 18:15:37 | 316.90 | 0 |
| 00201A11-2E62-44C4-941D-198FC8D877F0 | CcU-3512 | b-2222 | 193 | 55.5704 | -3.65129 | 2021-01-22 23:44:27 | 453.04 | 0 |
| 00235618-0A5C-4D49-9DCB-83A9405D8923 | CcS-8137 | b-2222 | 3556 | 59.8421 | 18.729 | 2020-09-09 15:43:19 | 263.14 | 0 |
| 005A5A7B-1F1A-4B6C-9B15-1625A78C9C38 | CcS-8998 | b-2222 | 4417 | 41.1591 | -8.63905 | 2024-05-15 09:10:11 | 442.01 | 0 |
| 006A7139-48R2-4FFA-8F73-R20376F04A84 | CcS-4870 | b-2222 | 289 | 51.1966 | 10.4669 | 2019-03-09 19:37:49 | 524.84 | 0 |

The output section shows the execution message: "SELECT * FROM transaction WHERE company_id IN (SELECT id FROM company WHERE country = ... 10 row(s) returned".

Opcion 2 - con WHERE EXISTS

Con IN: la subquery hace primero una lista y después comprueba si hay id iguales.

Con EXISTS: comprueba fila por fila de la tabla transaction. Es más eficiente.

estructura dades dades_introduir_sprint2 sprint_2_b* Ejercizi_Schema

Find Q|-nivel Done

```

44 -- Ejercici 3
45 -- SIN JOIN
46 -- a) Muestra todas las transacciones realizadas por empresas de Alemania
47 -- OPCION 1 - SIN WHERE EXISTS
48 • SELECT *
49 FROM transaction
50 WHERE company_id IN (
51     SELECT
52         id
53     FROM company
54     WHERE country = "Germany"
55 )
56 AND declined = 0
57
58

```

Result Grid Filter Rows: Edit: Export/Imports: Wrap Cell Contents: Fetch rows:

| id | credit_card_id | company_id | user_id | lat | longitude | timestamp | amount | declined |
|--------------------------------------|----------------|------------|---------|---------|-----------|---------------------|--------|----------|
| 00138D3B-206D-4C03-94B7-63A267EB9B4 | CcS-4899 | b-2222 | 318 | 41.3781 | 12.447 | 2020-03-25 10:43:43 | 426.36 | 0 |
| 0013C1B6-3B84-4D6C-8154-E2B3FEBCA8E9 | CcS-5070 | b-2222 | 489 | 41.3814 | 2.18176 | 2020-12-17 18:15:37 | 316.90 | 0 |
| 00201A11-2E62-44C4-941D-198FC8D877F0 | CcU-3512 | b-2222 | 193 | 55.5704 | -3.65129 | 2021-01-22 23:44:27 | 453.04 | 0 |
| 00235618-0A5C-4D49-9DCB-83A9405D8923 | CcS-8137 | b-2222 | 3556 | 59.8421 | 18.729 | 2020-09-09 15:43:19 | 263.14 | 0 |
| 005A5A7B-1F1A-4B6C-9B15-1625A78C9C38 | CcS-8998 | b-2222 | 4417 | 41.1591 | -8.63905 | 2024-05-15 09:10:11 | 442.01 | 0 |
| 00687194-48R2-4FFA-RF73-R70176F04AR4 | CcS-4870 | b-2222 | 789 | 51.1966 | 10.4669 | 2019-03-09 19:37:49 | 524.84 | 0 |

transaction 60 x

Output Action Output

| # | Time | Action | Message |
|---|----------|--|--------------------|
| 1 | 13:12:08 | SELECT * FROM transaction WHERE company_id IN (SELECT id FROM company WHERE country = ... | 10 row(s) returned |

b) Lista las empresas que han realizado transacciones por un amount superior a la media de todas las transacciones.

estructura dades dades_introduir_sprint2 sprint_2_b* Ejercizi_Schema

Find Q|-nivel Done

```

84
85 -- b) Lista las empresas que han realizado transacciones por un amount superior a la media de todas las transacciones
86 • SELECT c.company_name AS companies_above_avg_transaction_amount
87 FROM company AS c
88 INNER JOIN transaction AS t
89 ON c.id = t.company_id
90 WHERE t.amount > (SELECT AVG(amount) AS avg_amount -- calculo la media de todas las transacciones
91 FROM transaction
92 WHERE declined = 0
93 )
94 AND declined = 0
95
96

```

Result Grid Filter Rows: Export: Wrap Cell Contents: Fetch rows:

| companies_above_avg_transaction_amount |
|--|
| Eget Tincidunt Dui Institute |
| Neque Tellus Imperdiet Corp. |
| Aliquam Iaculis Lacus Corp. |
| Lorem Ipsum Dolor Corp. |
| Nulla Integer Vulputate Corp. |
| Auctor Mauris Corp. |
| Justo Eu Arcu Ltd |
| Nunc Ac PC |

Result 63 x

Output Action Output

| # | Time | Action | Message |
|---|----------|--|--------------------|
| 1 | 13:13:38 | SELECT c.company_name AS companies_above_avg_transaction_amount FROM company AS c INN... | 10 row(s) returned |

- c) Eliminarán del sistema las empresas que carecen de transacciones registradas, entrega el listado de estas empresas.

Opción 1 - con IN

The screenshot shows a database management tool interface. The top pane displays a SQL query for finding companies without transactions. The bottom pane shows the execution results, indicating that 0 rows were returned.

```
96
97 -- c) Eliminarán del sistema las empresas que carecen de transacciones registradas, entrega el listado de estas empresas
98 -- OPCION 1 - CON IN
99 • SELECT company_name AS company_without_transactions
100 FROM company
101 WHERE id NOT IN (
102     SELECT company_id
103     FROM transaction
104 )
105
```

Result Grid

| company_without_transactions |
|------------------------------|
|------------------------------|

company 65 x

Output

| # | Time | Action | Message |
|---|----------|---|-------------------|
| 1 | 13:15:41 | SELECT company_name AS company_without_transactions FROM company WHERE id NOT IN (SEL... | 0 row(s) returned |

(no hay empresas sin transacciones)

Opción 2 - con WHERE EXISTS

The screenshot shows a database management interface with a SQL editor and a results pane. The SQL editor contains the following query:

```
107
108 -- c) Eliminarán del sistema las empresas que carecen de transacciones registradas, entrega el listado de estas empresas
109 -- OPCION 2 - CON WHERE EXISTS
110 • SELECT c.company_name AS company_without_transactions
111 FROM company AS c
112 WHERE NOT EXISTS (SELECT 1
113                  FROM transaction AS t
114                  WHERE t.company_id = c.id
115                  )
116
117
```

The results pane shows a table with one column: `company_without_transactions`. The table is empty, indicating that no companies without transactions were found.

company 67 x

Output

Action Output

| # | Time | Action | Message |
|---|----------|--|-------------------|
| 1 | 13:16:12 | SELECT c.company_name AS company_without_transactions FROM company AS c WHERE NOT EXI... | 0 row(s) returned |

(no hay empresas sin transacciones)

► NIVEL 2

Ejercicio 1

Identifica los cinco días que se generó la mayor cantidad de ingresos en la empresa por ventas. Muestra la fecha de cada transacción junto con el total de las ventas.

estructura dades

dades_introduir_sprint2

sprint_2_b*

Esercizi_Schema

Limit to 10 rows

Find

Q - nivel

Done

```

118
119 -- NIVEL 2
120 -- Ejercicio 1
121 -- Identifica los cinco días que se generó la mayor cantidad de ingresos en la empresa por ventas.
122 -- Muestra la fecha de cada transacción junto con el total de las ventas.
123 • SELECT
124     CAST(timestamp AS DATE) AS transaction_date, -- opcion sin CAST: DATE(timestamp) AS date,
125     SUM(amount) AS sales
126 FROM transaction
127 WHERE declined = 0
128 GROUP BY transaction_date
129 ORDER BY sales DESC
130 LIMIT 5;
131

```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Fetch rows:

| transaction_date | sales |
|------------------|----------|
| 2022-12-13 | 14337.44 |
| 2019-11-18 | 13591.32 |
| 2023-02-20 | 13332.59 |
| 2017-12-20 | 13318.43 |
| 2019-03-18 | 12680.95 |

Result 70

Read Only

Output

Action Output

#

Time

Action

Message

1

13:20:11

SELECT CAST(timestamp AS DATE) AS transaction_date, -- opcion sin CAST: DATE(timestamp) AS da...

5 row(s) returned

Ejercicio 2

¿Cuál es la media de ventas por país? Presenta los resultados ordenados de mayor a menor medio.

The screenshot shows a database IDE with a SQL query editor and a results grid. The query is as follows:

```

131
132 -- Ejercicio 2
133 -- ¿Cuál es la media de ventas por país? Presenta los resultados ordenados de mayor a menor medio
134 • SELECT
135     c.country,
136     AVG(t.amount) AS avg_sales
137 FROM company AS c
138 INNER JOIN transaction AS t
139     ON c.id = t.company_id
140 WHERE t.declined = 0
141 GROUP BY c.country
142 ORDER BY avg_sales DESC;
143
144

```

The results grid shows the following data:

| country | avg_sales |
|---------------|------------|
| Australia | 265.535393 |
| United States | 264.419466 |
| Belgium | 260.971218 |
| Germany | 260.829097 |
| Ireland | 260.388751 |
| Spain | 260.276923 |
| France | 259.905738 |

The output pane shows the following message:

```

1 13:20:58 SELECT c.country,  AVG(t.amount) AS avg_sales FROM company AS c INNER JOIN transaction AS ... 10 row(s) returned

```

Ejercicio 3

En tu empresa, se plantea un nuevo proyecto para lanzar algunas campañas publicitarias para hacer competencia a la compañía “Non Institute”. Para ello, te piden la lista de todas las transacciones realizadas por empresas que están ubicadas en el mismo país que esta compañía.

a) Muestra el listado aplicando JOIN y subconsultas.

Opción 1 - con IN

estructura dades dades_introduir_sprint2 sprint_2_b* Ejercizi_Schema

Find Done

```

151
152 -- *Ejercicio 3 - Muestra el listado aplicando JOIN y subconsultas
153 -- OPCION 1 - CON IN
154 SELECT t.*
155 FROM transaction AS t
156 INNER JOIN company AS c
157     ON c.id = t.company_id
158 WHERE c.country IN (SELECT country
159                     FROM company
160                     WHERE company_name = "Non Institute")
161 AND t.declined = 0
162
163
164

```

Result Grid

| | id | credit_card_id | company_id | user_id | lat | longitude | timestamp | amount | declined |
|---|--------------------------------------|----------------|------------|---------|---------|-----------|---------------------|--------|----------|
| ▶ | 008629B4-C9A9-406C-A3D2-71FDA47BC546 | CcS-7063 | b-2246 | 2482 | 45.7666 | 4.83048 | 2015-07-30 12:12:42 | 486.44 | 0 |
| | 00B72BA4-54A3-4B8E-813F-2D57535AA17A | CcS-8475 | b-2246 | 3894 | 55.6212 | -3.7546 | 2017-10-26 22:08:26 | 414.06 | 0 |
| | 01F075B1-D7AE-4D02-AAD9-5FFD72A43F3C | CcS-8700 | b-2246 | 4119 | 55.856 | -3.15783 | 2018-01-27 13:44:36 | 103.73 | 0 |
| | 023FFCE8-E618-4938-8F56-C8DF80540ADD | CcS-7816 | b-2246 | 3235 | 46.3568 | 1.82755 | 2016-12-19 11:53:45 | 219.28 | 0 |
| | 026838EB-EF91-4564-957B-D6F1662AB7C5 | CcS-9471 | b-2246 | 4890 | 42.1332 | 12.396 | 2017-01-10 21:09:29 | 326.87 | 0 |
| | 02C2F29E-CEF2-4C1E-A594-F476E8F279C0 | CcS-9082 | b-2246 | 4501 | 39.4662 | -0.373246 | 2020-05-24 01:17:29 | 155.72 | 0 |
| | 02F468DC-426C-47C2-8B0A-D8B25B7A81AF | CcS-6913 | b-2246 | 2332 | 52.175 | 19.3508 | 2023-03-17 16:36:27 | 305.35 | 0 |

Result 74 x

Output

Action Output

| # | Time | Action | Message |
|---|----------|--|--------------------|
| 1 | 13:24:36 | SELECT t.* FROM transaction AS t INNER JOIN company AS c ON c.id = t.company_id WHERE c.cou... | 10 row(s) returned |

Opción 2 - con WHERE EXISTS

estructura dades dades_introduir_sprint2 sprint_2_b* Ejercizi_Schema

Find Done

```

164
165 -- *Ejercicio 3 - Muestra el listado aplicando JOIN y subconsultas
166 -- OPCION 2 - CON WHERE EXISTS
167 SELECT t.*
168 FROM transaction AS t
169 INNER JOIN company AS c
170     ON t.company_id = c.id
171 WHERE EXISTS(SELECT 1
172             FROM company AS cc
173             WHERE c.country = cc.country
174             AND cc.company_name = "Non Institute")
175 AND c.company_name <> "Non Institute"
176 AND t.declined = 0
177
178

```

Result Grid

| | id | credit_card_id | company_id | user_id | lat | longitude | timestamp | amount | declined |
|---|--------------------------------------|----------------|------------|---------|---------|-----------|---------------------|--------|----------|
| ▶ | 008629B4-C9A9-406C-A3D2-71FDA47BC546 | CcS-7063 | b-2246 | 2482 | 45.7666 | 4.83048 | 2015-07-30 12:12:42 | 486.44 | 0 |
| | 00B72BA4-54A3-4B8E-813F-2D57535AA17A | CcS-8475 | b-2246 | 3894 | 55.6212 | -3.7546 | 2017-10-26 22:08:26 | 414.06 | 0 |
| | 01F075B1-D7AE-4D02-AAD9-5FFD72A43F3C | CcS-8700 | b-2246 | 4119 | 55.856 | -3.15783 | 2018-01-27 13:44:36 | 103.73 | 0 |
| | 023FFCE8-E618-4938-8F56-C8DF80540ADD | CcS-7816 | b-2246 | 3235 | 46.3568 | 1.82755 | 2016-12-19 11:53:45 | 219.28 | 0 |
| | 026838EB-EF91-4564-957B-D6F1662AB7C5 | CcS-9471 | b-2246 | 4890 | 42.1332 | 12.396 | 2017-01-10 21:09:29 | 326.87 | 0 |
| | 02C2F29E-CEF2-4C1E-A594-F476E8F279C0 | CcS-9082 | b-2246 | 4501 | 39.4662 | -0.373246 | 2020-05-24 01:17:29 | 155.72 | 0 |

Result 75 x

Output

Action Output

| # | Time | Action | Message |
|---|----------|---|--------------------|
| 1 | 13:25:07 | SELECT t.* FROM transaction AS t INNER JOIN company AS c ON t.company_id = c.id WHERE EXIS... | 10 row(s) returned |

b) Muestra el listado aplicando solo subconsultas.

The screenshot shows a database management tool interface. The top pane displays a SQL query with subqueries. The bottom pane shows the 'Result Grid' with 10 rows of data. The 'Output' pane at the bottom shows the execution message: 'SELECT t.* FROM transaction AS t WHERE t.company_id IN (SELECT c.id FROM company AS c WHERE c.country IN (SELECT c.country FROM company AS c WHERE c.company_name = "Non Institute")) AND declined = 0 ... 10 row(s) returned'.

```
182
183 -- Muestra el listado aplicando solo subconsultas
184 • SELECT t.*
185 FROM transaction AS t
186 WHERE t.company_id IN (SELECT c.id
187                        FROM company AS c
188                        WHERE c.country IN (SELECT c.country
189                                         FROM company AS c
190                                         WHERE c.company_name = "Non Institute"
191                                         )
192                        )
193 AND declined = 0
194
195
196
```

| id | credit_card_id | company_id | user_id | lat | longitude | timestamp | amount | declined |
|--------------------------------------|----------------|------------|---------|---------|-----------|---------------------|--------|----------|
| 008629B4-C9A9-406C-A3D2-71FDA47BC546 | CcS-7063 | b-2246 | 2482 | 45.7666 | 4.83048 | 2015-07-30 12:12:42 | 486.44 | 0 |
| 00B72BA4-54A3-4B8E-B13F-2D57535AA17A | CcS-8475 | b-2246 | 3894 | 55.6212 | -3.7546 | 2017-10-26 22:08:26 | 414.06 | 0 |
| 01F075B1-D7AE-4D02-AAD9-5FFD72A43F3C | CcS-8700 | b-2246 | 4119 | 55.856 | -3.15783 | 2018-01-27 13:44:36 | 103.73 | 0 |
| 023FFCE8-E618-4938-BF56-C8DF80540ADD | CcS-7816 | b-2246 | 3235 | 46.3568 | 1.82755 | 2016-12-19 11:53:45 | 219.28 | 0 |
| 026838EB-EF91-4564-957B-D6F1662AB7C5 | CcS-9471 | b-2246 | 4890 | 42.1332 | 12.396 | 2017-01-10 21:09:29 | 326.87 | 0 |
| 02C2F29E-CEF2-4C1E-A594-F476E8F279C0 | CcS-9082 | b-2246 | 4501 | 39.4662 | -0.373246 | 2020-05-24 01:17:29 | 155.72 | 0 |

transaction 76 x

Output

Action Output

| # | Time | Action | Message |
|---|----------|---|------------------------|
| 1 | 13:26:28 | SELECT t.* FROM transaction AS t WHERE t.company_id IN (SELECT c.id FROM company AS c | ... 10 row(s) returned |

► NIVEL 3

Ejercicio 1

Presenta el nombre, teléfono, país, fecha y amount, de aquellas empresas que realizaron transacciones con un valor comprendido entre 350 y 400 euros y en alguna de estas fechas: 29 de abril de 2015, 20 de julio de 2018 y 13 de marzo de 2024.

Ordena los resultados de mayor a menor cantidad.

estructura datos dades_introduir_sprint2 sprint_2_b* Ejercizi_Schema

Find Done

```

198 -- Ejercicio 1
199 -- Presenta el nombre, teléfono, país, fecha y amount, de aquellas empresas que realizaron transacciones
200 -- con un valor comprendido entre 350 y 400 euros y en alguna de estas fechas:
201 -- 29 de abril de 2015, 20 de julio de 2018 y 13 de marzo de 2024. Ordena los resultados de mayor a menor cantidad.
202 • SELECT
203     c.company_name,
204     c.phone,
205     c.country,
206     CAST(t.timestamp AS DATE) AS date,
207     t.amount
208 FROM company As c
209 INNER JOIN transaction AS t
210 ON c.id = t.company_id
211 WHERE t.amount BETWEEN 350 AND 400
212 AND CAST(t.timestamp AS DATE) IN ("2015-04-29", "2018-07-20", "2024-03-13")
213 ORDER BY amount DESC;
214

```

Result Grid Export:

| company_name | phone | country | date | amount |
|-------------------------|----------------|----------------|------------|--------|
| Aliquam PC | 01 45 73 52 16 | Germany | 2024-03-13 | 399.84 |
| Auctor Mauris Vel LLP | 08 09 28 74 14 | United States | 2018-07-20 | 399.51 |
| At Pede Corp. | 06 14 48 33 15 | Italy | 2015-04-29 | 390.69 |
| Aliquam PC | 01 45 73 52 16 | Germany | 2024-03-13 | 388.29 |
| Ordi Adipiscing Limited | 03 18 00 77 81 | United Kingdom | 2018-07-20 | 373.71 |
| Erivella LLC | 08 70 15 03 57 | New Zealand | 2015-04-29 | 367.67 |

Result 77 x Read Only

Output

Action Output

| # | Time | Action | Message |
|---|----------|---|-------------------|
| 1 | 13:28:07 | SELECT c.company_name, c.phone, c.country, CAST(t.timestamp AS DATE) AS date, t.amou... | 8 row(s) returned |

Ejercicio 2

Necesitamos optimizar la asignación de los recursos y dependerá de la capacidad operativa que se requiera, por lo que te piden la información sobre la cantidad de transacciones que realizan las empresas, pero el departamento de recursos humanos es exigente y quiere un listado de las empresas en las que especifiques si tienen más de 400 transacciones o menos.

estructura dades
dades_introduir_sprint2
sprint_2_b*
Esercizi_Schema

Limit to 10 rows

Find
Q|nivel
Done

```

215 -- Ejercicio 2
216 -- Necesitamos optimizar la asignación de los recursos y dependerá de la capacidad operativa que se requiera,
217 -- por lo que te piden la información sobre la cantidad de transacciones que realizan las empresas,
218 -- pero el departamento de recursos humanos es exigente y quiere un listado de las empresas en las que especifiques
219 -- si tienen más de 400 transacciones o menos.
220 • SELECT
221     c.id,
222     c.company_name,
223     (CASE WHEN COUNT(t.id) >= 400 THEN "400 transacciones o mas"
224     ELSE "menos de 400 transacciones"
225     END) AS n_transacciones
226 FROM company AS c
227 INNER JOIN transaction AS t
228     ON c.id = t.company_id
229 WHERE t.declined = 0
230 GROUP BY c.id, c.company_name
231 ORDER BY n_transacciones DESC; -- no obligatorio

```

Result Grid
Filter Rows:
Exports
Wrap Cell Content:
Fetch rows:

| id | company_name | n_transacciones |
|--------|-------------------------------|----------------------------|
| b-2286 | Fringilla LLC | menos de 400 transacciones |
| b-2362 | Lorem Eu Incorporated | menos de 400 transacciones |
| b-2470 | Nec Luctus LLC | menos de 400 transacciones |
| b-2298 | Elit Etiam Laoreet Associates | 400 transacciones o mas |
| b-2370 | Non Justo Corp. | 400 transacciones o mas |

Result 79 x
Read Only

Output

Action Output

| # | Time | Action | Message |
|---|----------|--|--------------------|
| 1 | 13:30:02 | SELECT c.id, c.company_name, (CASE WHEN COUNT(t.id) >= 400 THEN "400 transacciones o ... | 10 row(s) returned |