

SPRINT 2 – VANESSA BUJALDON

NIVELL 1:

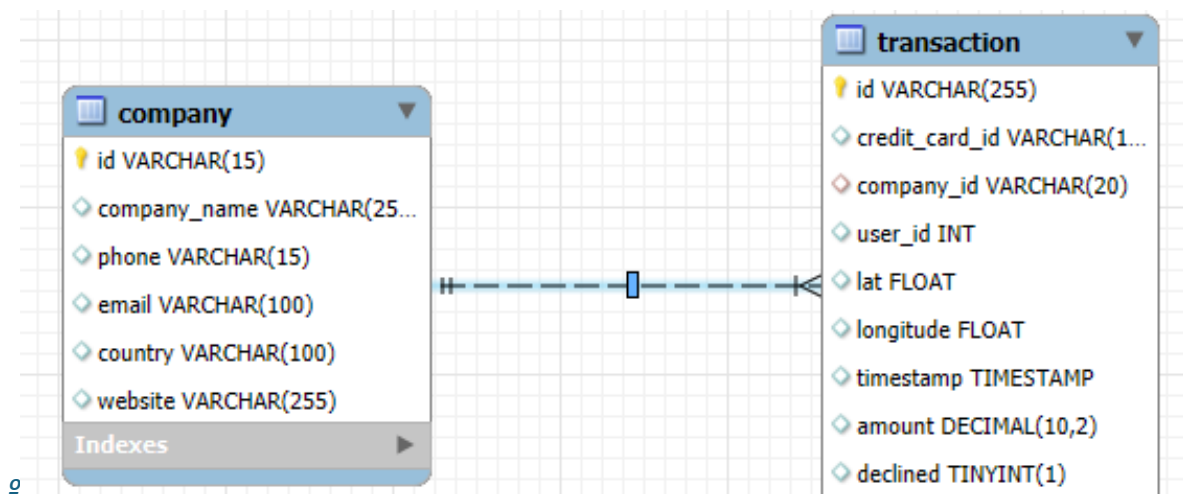
EXERCICI 1: Mostra les característiques principals de l'esquema creat i explica les diferents taules i variables que existeixen. Assegura't d'incloure un diagrama que il·lustri la relació entre les diferents taules i variable.

A) S'ha creat una bases de dades de nom TRANSACTIONS amb 2 taules (company i transaction):

1. company: 6 columnes (atributs) amb nom/tipus:
 - a. **Id** (**primary key**): tipus de dades VARCHAR (alfanumèric)
 - b. **Company_name**: VARCHAR
 - c. **Phone**: VARCHAR
 - d. **Email**: VARCHAR
 - e. **Country**: VARCHAR
 - f. **Website**: VARCHAR
2. transaction: 9 columnes (atributs) amb nom/tipus:
 - a. **Id** (**primary key**): VARCHAR
 - b. **Credit_Card_id**: VARCHAR
 - c. **Company_id**: VARCHAR (**foreign key**, la primary key de la taula company)
 - d. **User_id**: INTEGER (número sencer)
 - e. **Lat**: FLOAT (número decimal amb coma flotant)
 - f. **Longitud**: FLOAT
 - g. **Timestamp**:
 - h. **Amount**: DECIMAL (número de 10 dígitos màxim amb dos decimals).
 - i. **Declined**: TINYINT número petit que en aquesta taula és 0 o 1 / true-false

B) Relació entre taules company / transaction: relació 1 a N. La mateixa empresa (company_id) pot aparèixer varies vegades a la taula transaction (Cada companyia pot tenir moltes transaccions), mentre que cada transaction només té associada 1 empresa.

Amb dues taules, no podem parlar de quin model de dades complet és (model estrella o floc de neu). Faltaria veure la relació amb més taules.



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EXERCICI 2. *Utilitant JOIN realitzaràs les següents consultes:*

Llistat dels països que estan generant vendes.

```
1 • SELECT DISTINCT country
2 FROM transaction t
3 JOIN company c ON t.company_id = c.id
4 WHERE declined = 0
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [↗](#)

| country |
|----------------|
| Netherlands |
| Sweden |
| Ireland |
| United States |
| Belgium |
| Canada |
| Germany |
| Norway |
| France |
| Italy |
| United Kingdom |
| New Zealand |
| China |
| Spain |
| Australia |

Result 5 x

Output

Action Output

| # | Time | Action | Message |
|-----|----------|---|--------------------|
| ✓ 1 | 21:29:58 | SELECT DISTINCT country FROM transaction t JOIN company c ON t.company_id = c.id WHERE declined = 0 | 15 row(s) returned |

Des de quants països es generen les vendes.

```
1 • SELECT COUNT(DISTINCT country) AS recompte_països_amb_vendes
2 FROM transaction t
3 JOIN company c ON t.company_id = c.id
4 WHERE declined = 0;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [↗](#)

| recompte_països_amb_vendes |
|----------------------------|
| 15 |

Output

Action Output

| # | Time | Action | Message |
|-----|----------|--|-------------------|
| ✓ 1 | 21:55:10 | SELECT COUNT(DISTINCT country) AS recompte_països_amb_vendes FROM transaction t JOIN company c ON t.company_id = c.id WHERE declined = 0 | 1 row(s) returned |

Identifica la companyia amb la mitjana més gran de vendes.

```
1 • SELECT country, ROUND(AVG(amount),2) AS mitja_transaccions
2 FROM transaction t
3 JOIN company c ON t.company_id = c.id
4 GROUP BY country
5 ORDER BY mitja_transaccions DESC
6 LIMIT 1;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [↗](#)

| country | mitja_transaccions |
|-----------|--------------------|
| Australia | 265.19 |

Output

Action Output

| # | Time | Action | Message |
|-----|----------|---|-------------------|
| ✓ 1 | 21:36:43 | SELECT country, ROUND(AVG(amount),2) AS mitja_transaccions FROM transaction t JOIN company c ON t.company_id = c.id GROUP BY country ORDER BY mitja_transaccions DESC LIMIT 1 | 1 row(s) returned |

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EXERCICI 3. Utilitzant només subconsultes (sense utilitzar JOIN):

Mostra totes les transaccions realitzades per empreses d'Alemanya.

```
1 • SELECT *
2 FROM transaction t
3 JOIN company c ON t.company_id = c.id
4 WHERE country = 'Germany' -- en aquest cas no hi ha transaccions declinades, sino, afegiria 'AND declined = 0';
```

| Result Grid | | | | | | | | | | | | | |
|---|----------------|---|-----------------------|---------|-----------|---------------------|--------|----------|--------|---------------------------|----------------|---------------|--|
| Filter Rows: | | | | | | | | | | | | | |
| Export: Wrap Cell Contents: Fetch rows: | | | | | | | | | | | | | |
| id | credit_card_id | company_id | user_id | lat | longitude | timestamp | amount | declined | id | company_name | phone | email | |
| 00138D3B-206D-4C03-94B7-63A2676EB984 | CcS-4899 | b-2222 | 318 | 41.3781 | 12.447 | 2020-03-25 10:43:43 | 426.36 | 0 | b-2222 | Ac Fermentum Incorporated | 06 85 56 52 33 | donec.porttib | |
| 0013C1B6-3B84-4D6C-8154-E2B3FEBCA8E9 | CcS-5070 | b-2222 | 489 | 41.3814 | 2.18176 | 2020-12-17 18:15:37 | 316.90 | 0 | b-2222 | Ac Fermentum Incorporated | 06 85 56 52 33 | donec.porttib | |
| 00201A11-2E62-44C4-941D-198FC8D877F0 | CcJ-3512 | b-2222 | 193 | 55.5704 | -3.65129 | 2021-01-22 23:44:27 | 453.04 | 0 | b-2222 | Ac Fermentum Incorporated | 06 85 56 52 33 | donec.porttib | |
| 00235618-0A5C-4D49-9DCB-83A9405D8923 | CcS-8137 | b-2222 | 3556 | 59.8421 | 18.729 | 2020-09-09 15:43:19 | 263.14 | 0 | b-2222 | Ac Fermentum Incorporated | 06 85 56 52 33 | donec.porttib | |
| 005A5A7B-1F1A-4B6C-9B15-1625A78C9C38 | CcS-8998 | b-2222 | 4417 | 41.1591 | -8.63905 | 2024-05-15 09:10:11 | 442.01 | 0 | b-2222 | Ac Fermentum Incorporated | 06 85 56 52 33 | donec.porttib | |
| 00687139-48B2-4FFA-8E73-B20376F04AB4 | CcS-4870 | b-2222 | 289 | 51.1966 | 10.4669 | 2019-03-09 19:37:49 | 524.84 | 0 | b-2222 | Ac Fermentum Incorporated | 06 85 56 52 33 | donec.porttib | |
| 0074F4D0-32F1-4827-8758-55896314623A | CcS-8081 | b-2222 | 3500 | 39.7016 | -8.50325 | 2016-12-26 23:06:57 | 491.90 | 0 | b-2222 | Ac Fermentum Incorporated | 06 85 56 52 33 | donec.porttib | |
| 00AAB9CD-39D6-4DCB-8A1D-13BE73DC90A9 | CcS-6797 | b-2222 | 2216 | 55.7652 | -3.76245 | 2021-04-25 03:06:59 | 167.15 | 0 | b-2222 | Ac Fermentum Incorporated | 06 85 56 52 33 | donec.porttib | |
| 00BE09D4-6920-47D8-ABE8-325E2269829D | CcS-4983 | b-2222 | 402 | 38.708 | -9.12993 | 2019-02-27 15:25:16 | 141.66 | 0 | b-2222 | Ac Fermentum Incorporated | 06 85 56 52 33 | donec.porttib | |
| 00DA0383-ED48-4577-8ED1-3C58C258FF2F | CcS-9223 | b-2222 | 4642 | 51.1742 | 10.2027 | 2019-03-21 11:47:34 | 325.62 | 0 | b-2222 | Ac Fermentum Incorporated | 06 85 56 52 33 | donec.porttib | |
| 00DD11DE-ED01-4BBD-93A0-174D183A59DF | CcS-7681 | b-2222 | 3100 | 45.7565 | 4.83109 | 2024-01-28 18:20:49 | 242.53 | 0 | b-2222 | Ac Fermentum Incorporated | 06 85 56 52 33 | donec.porttib | |
| 01449CED-98E9-4DE5-9810-728C68A00E6F | CcS-5424 | b-2222 | 843 | 47.0163 | 2.26064 | 2024-02-17 19:37:14 | 451.71 | 0 | b-2222 | Ac Fermentum Incorporated | 06 85 56 52 33 | donec.porttib | |
| 0175E8C7-241E-42DA-A8B9-9F246DBF4D2F | CcS-7510 | b-2222 | 2929 | 52.0619 | 4.29464 | 2021-08-28 16:29:38 | 9.46 | 0 | b-2222 | Ac Fermentum Incorporated | 06 85 56 52 33 | donec.porttib | |
| 01ABDAB8-06E2-4CA0-A131-AEE6FF11B749 | CcS-5053 | b-2222 | 472 | 51.7738 | 5.17479 | 2020-01-28 01:15:07 | 368.41 | 0 | b-2222 | Ac Fermentum Incorporated | 06 85 56 52 33 | donec.porttib | |
| 01F1C7ED-0823-442D-AE0E-3134D5004866 | CcS-6776 | b-2222 | 2195 | 59.6697 | 18.6697 | 2022-12-17 09:40:14 | 168.79 | 0 | b-2222 | Ac Fermentum Incorporated | 06 85 56 52 33 | donec.porttib | |
| 01FABC61-18C8-441B-9B7C-459AA3F06097 | CcS-5531 | b-2222 | 950 | 55.3405 | -3.3863 | 2020-04-30 08:57:27 | 333.45 | 0 | b-2222 | Ac Fermentum Incorporated | 06 85 56 52 33 | donec.porttib | |
| 023B714C-DCC1-4B03-AD8E-2983673F631B | CcS-5103 | b-2222 | 522 | 55.3362 | -2.99198 | 2018-04-14 18:52:13 | 155.29 | 0 | b-2222 | Ac Fermentum Incorporated | 06 85 56 52 33 | donec.porttib | |
| 024BB812-89F5-4B21-B8E9-E0D51800A679 | CcS-9328 | b-2222 | 4747 | 42.0816 | 12.8326 | 2016-07-01 01:33:41 | 268.23 | 0 | b-2222 | Ac Fermentum Incorporated | 06 85 56 52 33 | donec.porttib | |
| 02DF083C-E622-42E0-B75E-15BA39A27594 | CcS-4859 | b-2222 | 278 | 60.6186 | 18.5278 | 2021-02-03 14:12:33 | 127.23 | 0 | b-2222 | Ac Fermentum Incorporated | 06 85 56 52 33 | donec.porttib | |
| 031C28DE-F9A2-448A-92EE-8700DD0B6327C | CcJ-3750 | b-2222 | 159 | 55.355 | -3.44811 | 2020-06-05 18:32:28 | 68.38 | 0 | b-2222 | Ac Fermentum Incorporated | 06 85 56 52 33 | donec.porttib | |
| 03217043-8465-46B4-9F2A-EDA02F6FFFE1 | CcS-4998 | b-2222 | 417 | 39.3245 | -8.58552 | 2022-03-16 03:39:15 | 589.15 | 0 | b-2222 | Ac Fermentum Incorporated | 06 85 56 52 33 | donec.porttib | |
| Result 13 | | | | | | | | | | | | | |
| Output | | | | | | | | | | | | | |
| Action Output | | | | | | | | | | | | | |
| # | Time | Action | Message | | | | | | | | | | |
| 1 | 11:13:39 | SELECT * FROM transaction t JOIN company c ON t.company_id = c.id WHERE country = 'Germany' -- en aquest cas no hi ha transaccions declinades, sino, afegiria 'AND declined = 0'; | 13291 row(s) returned | | | | | | | | | | |

Llista les empreses que han realitzat transaccions per un amount superior a la mitjana de totes les transaccions.

```
1 • SELECT c.id AS codi_empresa, c.company_name AS nom_empresa, ROUND(AVG(t.amount),0) AS mitja_transaccions
2 FROM transaction t
3 JOIN company c ON t.company_id = c.id
4 GROUP BY company_id
5 HAVING mitja_transaccions > (SELECT ROUND(AVG(amount),0) AS mitjana_general FROM transaction)
6 ORDER BY mitja_transaccions DESC;
```

| Result Grid | | | |
|------------------------------|------------------------------|---|--------------------|
| Filter Rows: | | | |
| Export: Wrap Cell Content: F | | | |
| codi_empresa | nom_empresa | mitja_transaccions | |
| b-2222 | Ac Fermentum Incorporated | 285 | |
| b-2282 | Pretium Neque Corp. | 276 | |
| b-2422 | Urna Convallis Associates | 274 | |
| b-2538 | At Associates | 272 | |
| b-2570 | Aliquet Diam Limited | 270 | |
| b-2498 | Metus Vitae Associates | 270 | |
| b-2470 | Nec Luctus LLC | 269 | |
| b-2382 | Neque Tellus Incorporated | 268 | |
| b-2394 | Tortor Nunc Commodo Company | 268 | |
| b-2514 | Cras Consulting | 267 | |
| b-2398 | Eget Ipsum Ltd | 267 | |
| b-2274 | Sed LLC | 266 | |
| b-2334 | Amet Institute | 266 | |
| b-2574 | Orci Adipiscing Limited | 265 | |
| b-2230 | Fusce Corp. | 265 | |
| b-2242 | Donec Ltd | 265 | |
| b-2462 | Pede Ultrices Ltd | 265 | |
| b-2258 | Vestibulum Lorem PC | 265 | |
| b-2346 | Ut Semper Foundation | 265 | |
| b-2486 | Tincidunt Orci Limited | 265 | |
| b-2254 | Nascetur Ridiculus Mus Inc. | 264 | |
| b-2410 | Sed Id Limited | 264 | |
| b-2390 | Neque Tellus Imperdiet Corp. | 264 | |
| b-2492 | Pede Vitae Limited | 264 | |
| Result 4 | | | |
| Output | | | |
| Action Output | | | |
| # | Time | Action | Message |
| 1 | 11:24:08 | SELECT c.id AS codi_empresa, c.company_name AS nom_empresa, ROUND(AVG(t.amount),0) AS mitja_transaccions FROM transaction t JOIN company c ON t.company_id = c.id GROUP BY company_id HAVING mitja_transaccions > (SELECT ROUND(AVG(amount),0) AS mitjana_general FROM transaction) ORDER BY mitja_transaccions DESC; | 45 row(s) returned |

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Eliminaran del sistema les empreses que no tenen transaccions registrades, entrega el llistat d'aquestes empreses.

```
1 • SELECT *
2 FROM company c
3 LEFT JOIN transaction t ON t.company_id = c.id
4 WHERE t.id IS NULL ;
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

| | | | | | | | | | | | | | | |
|----|--------------|-------|-------|---------|---------|----|----------------|------------|---------|-----|-----------|-----------|--------|----------|
| id | company_name | phone | email | country | website | id | credit_card_id | company_id | user_id | lat | longitude | timestamp | amount | declined |
|----|--------------|-------|-------|---------|---------|----|----------------|------------|---------|-----|-----------|-----------|--------|----------|

Output



Action Output

| # | Time | Action | Message |
|---|----------|---|-------------------|
| 1 | 11:47:53 | SELECT * FROM company c LEFT JOIN transaction t ON t.company_id = c.id WHERE t.id IS NULL | 0 row(s) returned |

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NIVELL 2:

EXERCICI 1: Identifica els cinc dies que es va generar la quantitat més gran d'ingressos a l'empresa per vendes. Mostra la data de cada transacció juntament amb el total de les vendes.

```
1 • SELECT DATE(timestamp) AS data, SUM(amount) AS total_vendes
2 FROM transaction
3 WHERE declined = 0
4 GROUP BY DATE(timestamp)
5 ORDER BY total_vendes DESC
6 LIMIT 5;
```

| Result Grid | | Filter Rows: | Export: | Wrap Cell Content: |
|-------------|--------------|--------------|---------|--------------------|
| data | total_vendes | | | |
| 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 11 x

Output

Action Output

| # | Time | Action | Message |
|---|----------|---|-------------------|
| 1 | 12:06:54 | SELECT DATE(timestamp) AS data, SUM(amount) AS total_vendes FROM transaction WHERE declined = 0 GROUP BY DATE(timestamp) ORDER BY total_vendes DESC LIMIT 5 | 5 row(s) returned |

EXERCICI 2. Quina és la mitjana de vendes per país? Presenta els resultats ordenats de major a menor mitjà.

```
1 • SELECT country AS país, ROUND(AVG(t.amount),2) AS mitjana_vendes
2 FROM transaction t
3 JOIN company c ON t.company_id = c.id
4 GROUP BY country
5 ORDER BY mitjana_vendes DESC;
```

| Result Grid | | Filter Rows: | Export: | Wrap Cell Content: |
|----------------|----------------|--------------|---------|--------------------|
| país | mitjana_vendes | | | |
| Australia | 265.19 | | | |
| United States | 264.98 | | | |
| Belgium | 261.15 | | | |
| Germany | 260.84 | | | |
| Ireland | 260.64 | | | |
| Spain | 260.47 | | | |
| France | 259.98 | | | |
| New Zealand | 259.59 | | | |
| Norway | 259.38 | | | |
| Netherlands | 258.44 | | | |
| Italy | 258.27 | | | |
| Sweden | 257.44 | | | |
| Canada | 257.43 | | | |
| United Kingdom | 256.76 | | | |
| China | 252.42 | | | |

Result 5 x

Output

Action Output

| # | Time | Action | Message |
|---|----------|---|--------------------|
| 1 | 12:12:19 | SELECT country AS país, ROUND(AVG(t.amount),2) AS mitjana_vendes FROM transaction t JOIN company c ON t.company_id = c.id GROUP BY country ORDER BY mitjana_vendes... | 15 row(s) returned |

EXERCICI 3 : En la teva empresa, es planteja un nou projecte per a llançar algunes campanyes publicitàries per a fer competència a la companyia "Non Institute". Per a això, et demanen la llista de totes les transaccions realitzades per empreses que estan situades en el mateix país que aquesta companyia.

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- Mostra el llistat aplicant JOIN i subconsultes.

```
1 • SELECT *
2 FROM transaction t
3 JOIN company c ON t.company_id = c.id
4 WHERE country = (
5     SELECT country
6     FROM company
7     WHERE company_name LIKE '%Non Institute%'
8 );
```

Result Grid

| id | credit_card_id | company_id | user_id | lat | longitude | timestamp | amount | declined | id | company_name | phone | email | country | website |
|--------------------------------------|----------------|------------|---------|---------|-----------|---------------------|--------|----------|--------|--------------|----------------|----------------|----------------|---------------------|
| 008629B4-C9A9-406C-A3D2-71FDA47BC546 | CcS-7063 | b-2246 | 2482 | 45.7666 | 4.83048 | 2015-07-30 12:12:42 | 486.44 | 0 | b-2246 | Sed Nunc Ltd | 02 62 64 73 48 | nibh@yahoo.org | United Kingdom | https://cnn.com/one |
| 00B72BA4-54A3-4B8E-B13F-2D57535AA17A | CcS-8475 | b-2246 | 3894 | 55.6212 | -3.7546 | 2017-10-26 22:08:26 | 414.06 | 0 | b-2246 | Sed Nunc Ltd | 02 62 64 73 48 | nibh@yahoo.org | United Kingdom | https://cnn.com/one |
| 01F075B1-D7AE-4D02-AAD9-5FFD72A43F3C | CcS-8700 | b-2246 | 4119 | 55.856 | -3.15783 | 2018-01-27 13:44:36 | 103.73 | 0 | b-2246 | Sed Nunc Ltd | 02 62 64 73 48 | nibh@yahoo.org | United Kingdom | https://cnn.com/one |
| 023FCE8-E618-4938-8F56-C8DF80540ADD | CcS-7816 | b-2246 | 3235 | 46.3568 | 1.82755 | 2016-12-19 11:53:45 | 219.28 | 0 | b-2246 | Sed Nunc Ltd | 02 62 64 73 48 | nibh@yahoo.org | United Kingdom | https://cnn.com/one |
| 026838EB-EF91-4564-957B-D6F1662AB7C5 | CcS-9471 | b-2246 | 4890 | 42.1332 | 12.396 | 2017-01-10 21:09:29 | 326.87 | 0 | b-2246 | Sed Nunc Ltd | 02 62 64 73 48 | nibh@yahoo.org | United Kingdom | https://cnn.com/one |
| 02C2F29E-CEF2-4C1E-A594-F476E8F279C0 | CcS-9082 | b-2246 | 4501 | 39.4662 | -0.373246 | 2020-05-24 01:17:29 | 155.72 | 0 | b-2246 | Sed Nunc Ltd | 02 62 64 73 48 | nibh@yahoo.org | United Kingdom | https://cnn.com/one |
| 02F468DC-426C-47C2-8B0A-D8B25B7A81AF | CcS-6913 | b-2246 | 2332 | 52.175 | 19.3508 | 2023-03-17 16:36:27 | 305.35 | 0 | b-2246 | Sed Nunc Ltd | 02 62 64 73 48 | nibh@yahoo.org | United Kingdom | https://cnn.com/one |
| 0306BE3B-817B-4A49-934E-0E439291A104 | CcS-5302 | b-2246 | 721 | 51.9233 | 18.926 | 2021-12-02 23:06:02 | 339.58 | 0 | b-2246 | Sed Nunc Ltd | 02 62 64 73 48 | nibh@yahoo.org | United Kingdom | https://cnn.com/one |
| 0347BFE6-8EB5-4387-B187-0E78E8F2B8FB | CcS-7674 | b-2246 | 3093 | 45.768 | 4.84271 | 2021-12-30 08:40:24 | 172.93 | 0 | b-2246 | Sed Nunc Ltd | 02 62 64 73 48 | nibh@yahoo.org | United Kingdom | https://cnn.com/one |
| 03AEBD0E-DC97-4B03-9C57-6A6DB78026FD | CcS-6121 | b-2246 | 1540 | 50.8113 | 10.3145 | 2018-11-11 11:28:49 | 114.77 | 0 | b-2246 | Sed Nunc Ltd | 02 62 64 73 48 | nibh@yahoo.org | United Kingdom | https://cnn.com/one |
| 03CA36D3-88FF-4DBF-BFD4-4CC7DA4EED2B | CcS-8036 | b-2246 | 3455 | 52.5178 | 13.4131 | 2017-02-25 15:38:21 | 440.27 | 0 | b-2246 | Sed Nunc Ltd | 02 62 64 73 48 | nibh@yahoo.org | United Kingdom | https://cnn.com/one |
| 04494182-96DD-42EB-82FE-5F92C5210537 | CcS-6791 | b-2246 | 2210 | 41.9542 | 12.4607 | 2018-05-17 17:53:53 | 241.59 | 0 | b-2246 | Sed Nunc Ltd | 02 62 64 73 48 | nibh@yahoo.org | United Kingdom | https://cnn.com/one |
| 045AACF6-FF85-49FB-9DE4-E6730655366A | CcS-5363 | b-2246 | 782 | 39.2464 | -7.90454 | 2018-08-09 22:12:54 | 188.58 | 0 | b-2246 | Sed Nunc Ltd | 02 62 64 73 48 | nibh@yahoo.org | United Kingdom | https://cnn.com/one |
| 0489FDAC-86A4-4929-954E-9A2272189CAC | CcS-7296 | b-2246 | 2715 | 51.1647 | 10.7348 | 2021-03-30 04:29:22 | 205.45 | 0 | b-2246 | Sed Nunc Ltd | 02 62 64 73 48 | nibh@yahoo.org | United Kingdom | https://cnn.com/one |
| 0490C36A-4B02-4CED-B33B-80B3AC86C6C8 | CcS-7539 | b-2246 | 2958 | 46.4281 | 1.64603 | 2023-05-20 19:28:00 | 424.64 | 0 | b-2246 | Sed Nunc Ltd | 02 62 64 73 48 | nibh@yahoo.org | United Kingdom | https://cnn.com/one |
| 04AAB0DE-FB25-4E39-A901-B98B79380A33 | CcS-4871 | b-2246 | 290 | 52.0589 | 5.55327 | 2022-11-04 05:35:28 | 461.34 | 0 | b-2246 | Sed Nunc Ltd | 02 62 64 73 48 | nibh@yahoo.org | United Kingdom | https://cnn.com/one |

Output

Action Output

| # | Time | Action | Message |
|---|----------|---|-----------------------|
| 1 | 12:21:29 | SELECT * FROM transaction t JOIN company c ON t.company_id = c.id WHERE country = (SELECT country FROM company WHERE company_name LIKE '%Non Institute%') | 13776 row(s) returned |

- Mostra el llistat aplicant solament subconsultes.

```
1 • USE `transactions`;
2 • SELECT *
3 FROM transaction
4 WHERE company_id IN
5 (
6     SELECT id
7     FROM company
8     WHERE country =
9     (
10        SELECT country
11        FROM company
12        WHERE company_name LIKE '%Non Institute%'
13    )
14 )
15 ;
```

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-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 |
| 023FCE8-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 |
| 0306BE3B-817B-4A49-934E-0E439291A104 | CcS-5302 | b-2246 | 721 | 51.9233 | 18.926 | 2021-12-02 23:06:02 | 339.58 | 0 |
| 0347BFE6-8EB5-4387-B187-0E78E8F2B8FB | CcS-7674 | b-2246 | 3093 | 45.768 | 4.84271 | 2021-12-30 08:40:24 | 172.93 | 0 |
| 03AEBD0E-DC97-4B03-9C57-6A6DB78026FD | CcS-6121 | b-2246 | 1540 | 50.8113 | 10.3145 | 2018-11-11 11:28:49 | 114.77 | 0 |
| 03CA36D3-88FF-4DBF-BFD4-4CC7DA4EED2B | CcS-8036 | b-2246 | 3455 | 52.5178 | 13.4131 | 2017-02-25 15:38:21 | 440.27 | 0 |
| 04494182-96DD-42EB-82FE-5F92C5210537 | CcS-6791 | b-2246 | 2210 | 41.9542 | 12.4607 | 2018-05-17 17:53:53 | 241.59 | 0 |

transaction 5 x

Output

Action Output

| # | Time | Action | Message |
|---|----------|--|-----------------------|
| 1 | 13:10:44 | USE `transactions` | 0 row(s) affected |
| 2 | 13:10:44 | SELECT * FROM transaction WHERE company_id IN (SELECT id FROM company WHERE country = (SELECT country FROM company WHERE company_name LIKE '%Non Institute%')) | 13776 row(s) returned |

SPRINT 2 – VANESSA BUJALDON

NIVELL 3:

EXERCICI 1 : Presenta el nom, telèfon, país, data i amount, d'aquelles empreses que van realitzar transaccions amb un valor comprès entre 350 i 400 euros i en alguna d'aquestes dates: 29 d'abril del 2015, 20 de juliol del 2018 i 13 de març del 2024. Ordena els resultats de major a menor quantitat.

```
1 • SELECT c.company_name AS nom_empresa, c.phone AS telefon, DATE(timestamp) AS data_transaccio, t.amount AS import_transaccio
2 FROM transaction t
3 JOIN company c ON t.company_id = c.id
4 WHERE amount BETWEEN 350 AND 400 AND DATE(timestamp) IN ('2015-04-29', '2018-07-20', '2024-03-13')
5 ORDER BY import_transaccio DESC;
```

| nom_empresa | telefon | data_transaccio | import_transaccio |
|-------------------------|----------------|-----------------|-------------------|
| Aliquam PC | 01 45 73 52 16 | 2024-03-13 | 399.84 |
| Auctor Mauris Vel LLP | 08 09 28 74 14 | 2018-07-20 | 399.51 |
| At Pede Corp. | 06 14 48 33 15 | 2015-04-29 | 390.69 |
| Aliquam PC | 01 45 73 52 16 | 2024-03-13 | 388.29 |
| Orci Adipiscing Limited | 03 18 00 77 81 | 2018-07-20 | 373.71 |
| Fringilla LLC | 08 29 15 93 57 | 2015-04-29 | 367.62 |
| Pede Cum Ltd | 07 62 26 48 38 | 2018-07-20 | 356.87 |
| Auctor Mauris Vel LLP | 08 09 28 74 14 | 2024-03-13 | 353.75 |

Result 9 x

Output

Action Output

| # | Time | Action | Message |
|---|----------|---|-------------------|
| 1 | 13:35:31 | SELECT c.company_name AS nom_empresa, c.phone AS telefon, DATE(timestamp) AS data_transaccio, t.amount AS import_transaccio FROM transaction t JOIN company c ON t.c... | 8 row(s) returned |

EXERCICI 2. Necessitem optimitzar l'assignació dels recursos i dependrà de la capacitat operativa que es requereixi, per la qual cosa et demanen la informació sobre la quantitat de transaccions que realitzen les empreses, però el departament de recursos humans és exigent i vol un llistat de les empreses on especifiquis si tenen més de 400 transaccions o menys.

```
1 • SELECT c.id, c.company_name AS nom_empresa, COUNT(t.amount) AS total_transaccions,
2 CASE
3 WHEN COUNT(t.amount) > 400 THEN 'SUPERIOR_400'
4 WHEN COUNT(t.amount) < 400 THEN 'INFERIOR_400'
5 ELSE 'sense_info'
6 END AS classificacio_segons_transaccions
7 FROM transaction t
8 JOIN company c ON t.company_id = c.id
9 WHERE declined = 0
10 GROUP BY c.id
11 ORDER BY total_transaccions DESC; -- no demanava pero per si volen contactar 1er les que fan + transaccions
12
```

| id | nom_empresa | total_transaccions | classificacio_segons_transaccions |
|--------|-------------------------------------|--------------------|-----------------------------------|
| b-2222 | Ac Fermentum Incorporated | 2400 | SUPERIOR_400 |
| b-2302 | Nunc Interdum Incorporated | 1999 | SUPERIOR_400 |
| b-2330 | Donec Fringilla PC | 1590 | SUPERIOR_400 |
| b-2366 | Mauris Institute | 1583 | SUPERIOR_400 |
| b-2350 | Aliquet Vel Vulputate Incorporated | 1581 | SUPERIOR_400 |
| b-2614 | Rutrum Non Inc. | 1578 | SUPERIOR_400 |
| b-2566 | Aliquam PC | 1573 | SUPERIOR_400 |
| b-2574 | Orci Adipiscing Limited | 1565 | SUPERIOR_400 |
| b-2478 | Etiam Bibendum Fermentum Industries | 1564 | SUPERIOR_400 |
| b-2266 | Mus Aenean Eget Foundation | 1563 | SUPERIOR_400 |
| b-2550 | Auctor Mauris Corp. | 1561 | SUPERIOR_400 |
| b-2326 | Enim Condimentum Ltd | 1549 | SUPERIOR_400 |
| b-2454 | Justo Eu Arcu Ltd | 1545 | SUPERIOR_400 |
| b-2402 | At Pede Corp. | 1541 | SUPERIOR_400 |
| b-2618 | Non Institute | 1541 | SUPERIOR_400 |
| b-2502 | Dolor Vitae Limited | 1541 | SUPERIOR_400 |
| b-2430 | Interdum Feugiat Sed Associates | 1541 | SUPERIOR_400 |
| b-2414 | Netus Et Malesuada Ltd | 1540 | SUPERIOR_400 |
| b-2554 | Cras Vehicula Aliquet Industries | 1539 | SUPERIOR_400 |
| b-2246 | Sed Nunc Ltd | 1538 | SUPERIOR_400 |
| b-2424 | Tortor Non Uenenet Institute | 1526 | SUPERIOR_400 |

Result 14 x

Output

Action Output

| # | Time | Action | Message |
|---|----------|--|---------------------|
| 1 | 13:49:30 | SELECT c.id, c.company_name AS nom_empresa, COUNT(t.amount) AS total_transaccions, CASE WHEN COUNT(t.amount) > 400 THEN 'SUPERIOR_400' WHEN COUNT(t... | 100 row(s) returned |