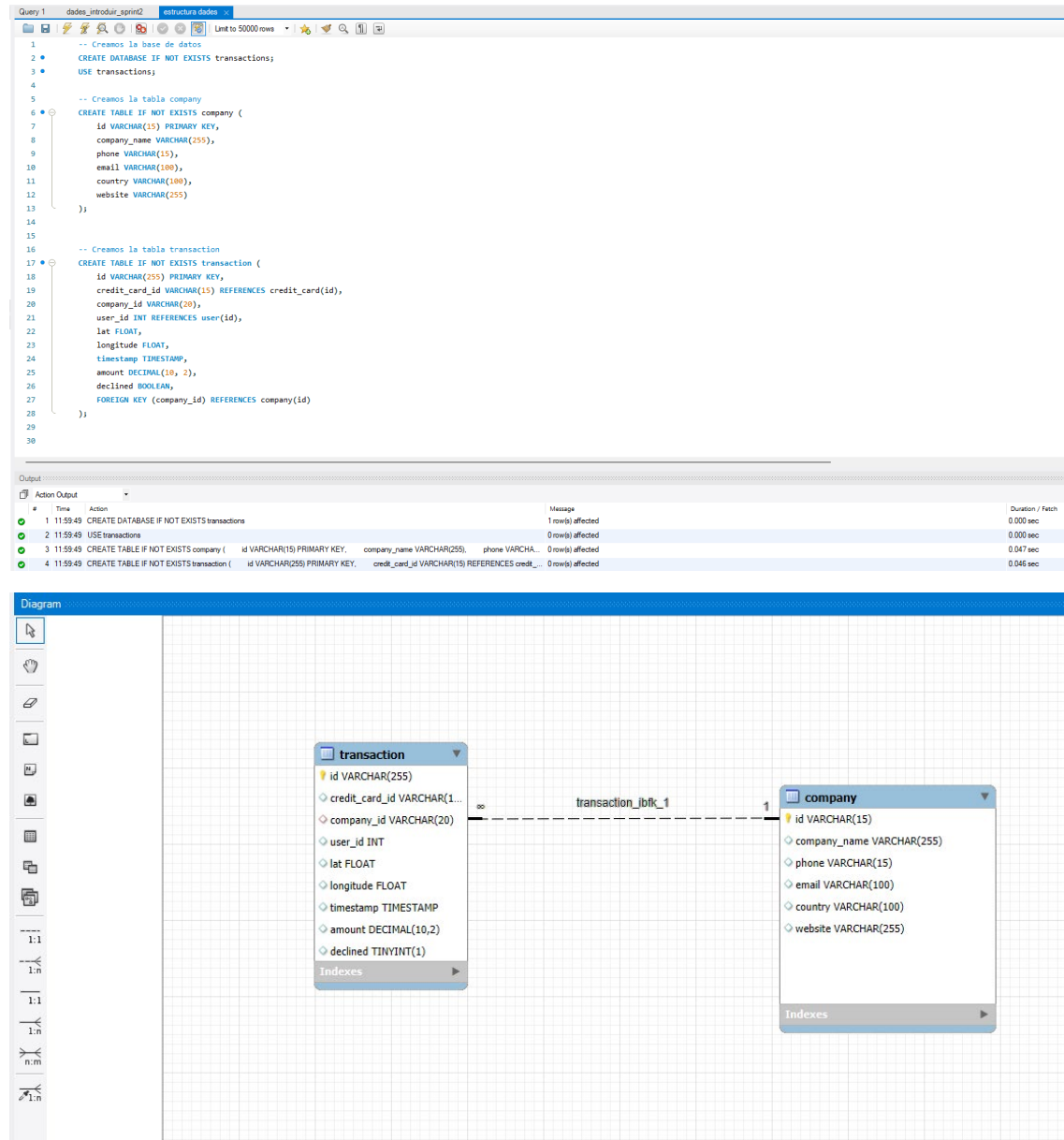


SPRINT 02

Nivell 1 - Exercici 1

A partir dels documents adjunts (estructura_dades i dades_introduir), importa les dues taules. 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 variables.



Existeixen dues taules: Una per allotjar les vendes realitzades per client/companyia y un altra per allotjar el mestre de dades dels nostres clients.

Per tant la primera ens serveix per arribar a obtenir dades quantitatives i la segon per obtenir dades qualitatives.

Les claus primàries són pel mestre de clients el camp ID, per la taula de vendes (transaction) ID.

Això vol dir que no poden haver-hi a la bbdd dos clients amb el mateix ID ni dues transaccions amb el mateix ID.

Table	Name	Unique	Index Type	Index Comment	Column
company	PRIMARY	Yes	BTREE		id
transaction	PRIMARY	Yes	BTREE		id
transaction	company_id	No	BTREE		company_id

Nivell 1. Exercici 2

Utilitzant JOIN realitzaràs les següents consultes:

Llistat dels països que estan generant vendes.

Des de quants països es generen les vendes.

Identifica la companyia amb la mitjana més gran de vendes.

Query 1 ITA_Sprint 02-AnaCPichot

```

34 -- COM= TAULA 1 Companies o mestre de clients
35 -- VEN= TAULA 2 Transaccions de vendes gravades al sistema. Incloses i excloues.(declined 0/1)
36
37
38 -- CHECK : número de països que existeixen a la taula de mestre de companyies: 15.
39 • SELECT DISTINCT com.country
40 FROM transactions.company com;
41
42 -- 1.- Llistat de països que tenen vendes
43 • SELECT DISTINCT                                -- Step 2.- Select and visualise fields
44     com.country
45 FROM transactions.company com
46     INNER JOIN transactions.transaction ven
47     ON com.ID=ven.company_id
48 WHERE ven.amount>0.00 AND declined=0;           -- Step 1.- Filter companies with sales and transactions completed
49
50 -- 15 païses en total.
51
52 -- 2.- Des de quants països es generen vendes / Números de països que generen vendes.
53
54 • SELECT                                -- Step 2.- Select and visualise fields

```

Result Grid

country
Netherlands
Sweden
Ireland
United States
Belgium
Canada
Germany

Result 1

Output

#	Time	Action	Message
1	13:03:32	SELECT DISTINCT -- Step 2.- Select and visualise fields com.country FROM transactions.company com INNER JOIN transactions.transaction ven ON...	15 row(s) returned

Query 1 ITA_Sprint 02-AnaCPichot

```

49
50 -- 15 païses en total.
51
52 -- 2.- Des de quants païssos es generen vendes / Números de païssos que generen vendes.
53
54 • SELECT -- Step 2.- Select and visualise fields
55     COUNT(DISTINCT com.country)
56 FROM transactions.company com
57     INNER JOIN transactions.transaction ven
58     ON com.ID=ven.company_id
59 WHERE ven.amount>0.00 AND ven.declined=0; -- Step 1.- Filter companies with sales and transactions completed
60
61 -- 15 païses en total.
62
63 -- 3.- Identifica la companyia amb la mitjana més gran de vendes
64
65 • SELECT DISTINCT -- Step 5.- Select and visualise fields
66     ven.company_id,
67     com.company_name,
68     com.country,
69     ROUND(AVG(amount),2) AS ventas -- Step 1.- Calculate average sales

```

Result Grid

	COUNT(DISTINCT com.country)
▶ 15	

Result 2

Output

Action Output

#	Time	Action	Message
✓ 1	13:03:32	SELECT DISTINCT – Step 2.- Select and visualise fields com.country FROM transactions.company com INNER JOIN transactions.transaction ven ON...	15 row(s) returned
✓ 2	13:04:18	SELECT – Step 2.- Select and visualise fields COUNT(DISTINCT com.country) FROM transactions.company com INNER JOIN transactions.transactio...	1 row(s) returned

Query 1 ITA_Sprint 02-AnaCPichot

```

62
63 -- 3.- Identifica la companyia amb la mitjana més gran de vendes
64
65 • SELECT DISTINCT -- Step 5.- Select and visualise fields
66     ven.company_id,
67     com.company_name,
68     com.country,
69     ROUND(AVG(amount),2) AS ventas -- Step 1.- Calculate average sales
70 FROM transactions.transaction ven
71     INNER JOIN transactions.company com
72     ON com.ID=ven.company_id
73 WHERE ven.declined=0 -- Step 2.- Filter transactions completed
74 GROUP BY
75     company_id -- Step 3.- Aggregate sales per company id/customer
76 ORDER BY ventas DESC
77 LIMIT 1; -- Step 4.- View TOP 1
78
79
80 -- ===== Exercici 3 =====
81 -- Utilitzant només subconsultes (sense utilitzar JOIN):
82 -- o Mostra totes les transaccions realitzades per empreses d'Alemanya.

```

Result Grid

company_id	company_name	country	ventas
▶ b-2222	Ac Fermentum Incorporated	Germany	284.91

Result 3

Output

Action Output

#	Time	Action	Message
✓ 1	13:03:32	SELECT DISTINCT – Step 2.- Select and visualise fields com.country FROM transactions.company com INNER JOIN transactions.transaction ven ON...	15 row(s) returned
✓ 2	13:04:18	SELECT – Step 2.- Select and visualise fields COUNT(DISTINCT com.country) FROM transactions.company com INNER JOIN transactions.transactio...	1 row(s) returned
✓ 3	13:04:52	SELECT DISTINCT – Step 5.- Select and visualise fields ven.company_id, com.company_name, com.country, ROUND(AVG(amount),2) AS ve...	1 row(s) returned

Nivell 1. Exercici 3

Utilitzant només subconsultes (sense utilitzar JOIN):

Mostra totes les transaccions realitzades per empreses d'Alemanya.

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

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

Query 1 ITA_Sprint 02-AnaCPichot

```

86
87 -- CHECK INICIAL 15 paises en total.
88
89 • SELECT DISTINCT country
90 FROM transactions.company com;
91
92 -- 1.- Mostra totes les transaccions realitzades per empreses d'Alemanya.
93 • SELECT * -- Step 2.- Visualise fields
94 FROM transactions.transaction ven
95 WHERE
96     company_id IN (
97         SELECT
98             ID
99         FROM transactions.company com
100         WHERE country='Germany'); -- Step 1.- Filter country using subquery
101
102 -- 2.- llista les empreses que han realitzat transaccions per un amount superior a la mitjana de totes les transaccions.
103 -- VALOR INDIVIDUAL DE LA TRANSACCIÓ > PROMIG DEL TOTAL DE VENDES A LA BASE DE DADES : AMOUNT_ti > ( SUMA VENDES/ # TOTAL TRANSACCIONS)
104
105 • SELECT DISTINCT -- Step 4.- Visualise results
106     company_name

```

id	credit_card_id	company_id	user_id	lat	longitude	timestamp	amount	declined
00138D3B-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-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
00687139-48B2-4FFA-8E73-B20376F04AB4	CcS-4870	b-2222	289	51.1966	10.4669	2019-03-09 19:37:49	524.84	0
0074F4D0-32F1-4827-8758-55896314623A	CcS-R081	b-2222	3500	39.7016	-8.50325	2016-12-26 23:06:57	491.90	0

transaction 4 x

Output

#	Time	Action	Message
✓ 1	13:03:32	SELECT DISTINCT -- Step 2.- Select and visualise fields com.country FROM transactions.company com INNER JOIN transactions.transaction ven ON...	15 row(s) returned
✓ 2	13:04:18	SELECT-- Step 2.- Select and visualise fields COUNT(DISTINCT com.country) FROM transactions.company com INNER JOIN transactions.transaction ven ON...	1 row(s) returned
✓ 3	13:04:52	SELECT DISTINCT -- Step 5.- Select and visualise fields ven.company_id, com.company_name, com.country, ROUND(AVG(amount),2) AS ve...	1 row(s) returned
✓ 4	13:10:05	SELECT * -- Step 2.- Visualise fields FROM transactions.transaction ven WHERE company_id IN (SELECT ID FROM transactions.company c...	13291 row(s) returned

Query 1 ITA_Sprint 02-AnaCPichot

```

98      ID
99      FROM transactions.company com
100     WHERE country='Germany'))); -- Step 1.- Filter country using subquery
101
102 -- 2.- Llista les empreses que han realitzat transaccions per un amount superior a la mitjana de totes les transaccions.
103 -- VALOR INDIVIDUAL DE LA TRANSACCIÓ > PROMIG DEL TOTAL DE VENDES A LA BASE DE DADES :  AMOUNT_ti > ( SUMA VENDES/ # TOTAL TRANSACCIONS)
104
105 • SELECT DISTINCT -- Step 4.- Visualise results
106     company_name
107 FROM transactions.company com -- Step 3.- Translate ID's into name.
108 WHERE ID IN (
109     SELECT
110     company_id
111 FROM transactions.TRANSACTION ven -- Step 2.- Select those customer ID's that meet requirements
112 WHERE declined=0 AND amount > (
113     SELECT ROUND(AVG(amount),2) AS Promig_Total
114 FROM transactions.TRANSACTION ven
115 WHERE declined=0)); -- Step 1.- Calculate average sales including only completed transactions.
116
117 -- check promig Total = '259.015312'
118

```

Result Grid

company_name
Ac Fermentum Incorporated
Magna A Neque Industries
Fusce Corp.
Convalis In Incorporated
Ante Jaculis Nec Foundation
Donec Ltd
Sed Nunc I trl

company 5

Output

#	Time	Action	Message
1	13:03:32	SELECT DISTINCT -- Step 2- Select and visualise fields com.country FROM transactions.company com INNER JOIN transactions.transaction ven ON...	15 row(s) returned
2	13:04:18	SELECT-- Step 2- Select and visualise fields COUNT(DISTINCT com.country) FROM transactions.company com INNER JOIN transactions.transaccio...	1 row(s) returned
3	13:04:52	SELECT DISTINCT -- Step 5- Select and visualise fields ven.company_id, com.company_name, com.country, ROUND(AVG(amount),2) AS ve...	1 row(s) returned
4	13:10:05	SELECT * -- Step 2- Visualise fields FROM transactions.transaction ven WHERE company_id IN (SELECT ID FROM transactions.company c...	13291 row(s) returned
5	13:10:44	SELECT DISTINCT -- Step 4- Visualise results company_name FROM transactions.company com -- Step 3- Translate ID's into name. WHERE I...	100 row(s) returned

Query 1 ITA_Sprint 02-AnaCPichot

```

112 WHERE declined=0 AND amount > (
113     SELECT ROUND(AVG(amount),2) AS Promig_Total
114 FROM transactions.TRANSACTION ven
115 WHERE declined=0)); -- Step 1.- Calculate average sales including only completed transac
116
117 -- check promig Total = '259.015312'
118
119 -- 3.- Eliminarian del sistema les empreses que no tenen transaccions registrades, entrega el llistat d'aquestes empreses.
120
121 • SELECT DISTINCT -- Step 3.- Visualise results
122     com.id,
123     com.company_name
124 FROM transactions.company com
125 WHERE id NOT IN -- Step 2.- Filter those not in the set
126 (
127     SELECT DISTINCT ven.company_id
128 FROM transactions.TRANSACTION ven); -- Step 1.- Create a set with all unique company ID's
129
130 -- ===== NIVELL 2 =====
131 /*
132 Exercici 1

```

Result Grid

id	company_name
1	1
2	2

company 6

Output

#	Time	Action	Message
1	13:03:32	SELECT DISTINCT -- Step 2- Select and visualise fields com.country FROM transactions.company com INNER JOIN transactions.transaction ven ON...	15 row(s) returned
2	13:04:18	SELECT-- Step 2- Select and visualise fields COUNT(DISTINCT com.country) FROM transactions.company com INNER JOIN transactions.transaccio...	1 row(s) returned
3	13:04:52	SELECT DISTINCT -- Step 5- Select and visualise fields ven.company_id, com.company_name, com.country, ROUND(AVG(amount),2) AS ve...	1 row(s) returned
4	13:10:05	SELECT * -- Step 2- Visualise fields FROM transactions.transaction ven WHERE company_id IN (SELECT ID FROM transactions.company c...	13291 row(s) returned
5	13:10:44	SELECT DISTINCT -- Step 4- Visualise results company_name FROM transactions.company com -- Step 3- Translate ID's into name. WHERE I...	100 row(s) returned
6	13:11:14	SELECT DISTINCT -- Step 3- Visualise results com.id, com.company_name FROM transactions.company com WHERE id NOT IN -- Step 2- Fi...	0 row(s) returned

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.

Query 1 ITA_Sprint 02-AnaCPichot

```

142
143 -- 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 :
144
145 • SELECT -- Step 6.- Visualise results
146     CAST(timestamp AS date) AS Data_Transaccio,
147     SUM(amount) AS Total_Vendes_Diàries -- Step 1.- Sum up amounts to get daily sales
148 FROM transactions.transaction ven
149 WHERE amount>0.00 AND declined=0 -- Step 2.- Filter customers generating sales and completed transactions
150 GROUP BY
151     CAST(timestamp AS date) -- Step 3.- Aggregate sales per day
152 ORDER BY Total_Vendes_Diàries DESC -- Step 4.- order the results, daily sales per date, top down
153 LIMIT 5; -- Step 5.- Select only the top 5 dates
154
155 -- Quina és la mitjana de vendes per país? Presenta els resultats ordenats de major a menor mitjà.
156 • SELECT
157     com.country,
158     AVG(ven.amount) AS Promig_Vendes
159 FROM transactions.transaction ven
160 INNER JOIN transactions.company com
161 ON ven.company_id=com.ID
162 GROUP BY

```

Result Grid

Data_Transaccio	Total_Vendes_Diàries
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 7

Output

#	Time	Action	Message
1	13:03:32	SELECT DISTINCT -- Step 2.- Select and visualise fields com.country FROM transactions.company com INNER JOIN transactions.transaction ven ON...	15 row(s) returned
2	13:04:18	SELECT -- Step 2.- Select and visualise fields COUNT(DISTINCT com.country) FROM transactions.company com INNER JOIN transactions.transaccio...	1 row(s) returned
3	13:04:52	SELECT DISTINCT -- Step 5.- Select and visualise fields ven.company_id, com.company_name, com.country, ROUND(AVG(amount),2) AS ve...	1 row(s) returned
4	13:10:05	SELECT * -- Step 2.- Visualise fields FROM transactions.transaction ven WHERE company_id IN (SELECT ID FROM transactions.company c...	13291 row(s) returned
5	13:10:44	SELECT DISTINCT -- Step 4.- Visualise results company_name FROM transactions.company com -- Step 3.- Translate ID's into name. WHERE I...	100 row(s) returned
6	13:11:14	SELECT DISTINCT -- Step 3.- Visualise results com.id, com.company_name FROM transactions.company com WHERE id NOT IN -- Step 2.- Fi...	0 row(s) returned
7	13:15:17	SELECT -- Step 6.- Visualise results CAST(timestamp AS date) AS Data_Transaccio, SUM(amount) AS Total_Vendes_Diàries -- Step 1.- Sum up a...	5 row(s) returned

Exercici 2

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

Query 1 ITA_Sprint 02-AnaCPichot

```

151 CAST(timestamp AS date) -- Step 3.- Agreggate sales per day
152 ORDER BY Total_Vendes_Diàries DESC -- Step 4.- order the results, daily sales per date, top down
153 LIMIT 5; -- Step 5.- Select only the top 5 dates
154
155 -- Quina és la mitjana de vendes per país? Presenta els resultats ordenats de major a menor mitjà.
156 • SELECT
157     com.country,
158     AVG(ven.amount) AS Promig_Vendes
159 FROM transactions.transaction ven
160     INNER JOIN transactions.company com
161     ON ven.company_id=com.ID
162 GROUP BY
163     com.country
164 ORDER BY Promig_Vendes DESC;
165
166 -- En la teva empresa, es planteja un nou projecte per a llançar algunes campanyes publicitàries per a fer competència a la companyia "Non Inst
167 -- Per a això, et demanen la llista de totes les transaccions realitzades per empreses que estan situades en el mateix país que aquesta company:
168
169
170 -- Mostra el llistat aplicant JOIN i subconsultes
171 • SELECT -- Step 3.- Visualise results

```

Result Grid

country	Promig_Vendes
Australia	265.190742
United States	264.977877
Belgium	261.153042
Germany	260.841391
Ireland	260.644761
Spain	260.468125
France	259.979185

Output

#	Time	Action	Message
2	13:04:18	SELECT -- Step 2 - Select and visualise fields COUNT(DISTINCT com.country) FROM transactions.company com INNER JOIN transactions.transacti...	1 row(s) returned
3	13:04:52	SELECT DISTINCT -- Step 5 - Select and visualise fields ven.company_id, com.company_name, com.country, ROUND(AVG(amount),2) AS v...	1 row(s) returned
4	13:10:05	SELECT * -- Step 2 - Visualise fields FROM transactions.transaction ven WHERE company_id IN (SELECT ID FROM transactions.company...	13291 row(s) returned
5	13:10:44	SELECT DISTINCT -- Step 4 - Visualise results company_name FROM transactions.company com -- Step 3 - Translate ID's into name. WHERE...	100 row(s) returned
6	13:11:14	SELECT DISTINCT -- Step 3 - Visualise results com.id, com.company_name FROM transactions.company com WHERE id NOT IN -- Step 2 - ...	0 row(s) returned
7	13:15:17	SELECT -- Step 6 - Visualise results CAST(timestamp AS date) AS Data_Transaccio, SUM(amount) AS Total_Vendes_Diàries -- Step 1 - Sum up ...	5 row(s) returned
8	13:15:52	SELECT com.country, AVG(ven.amount) AS Promig_Vendes FROM transactions.transaction ven INNER JOIN transactions.company com ON ...	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.

Mostra el llistat aplicant JOIN i subconsultes

Mostra el llistat aplicant solament subconsultes

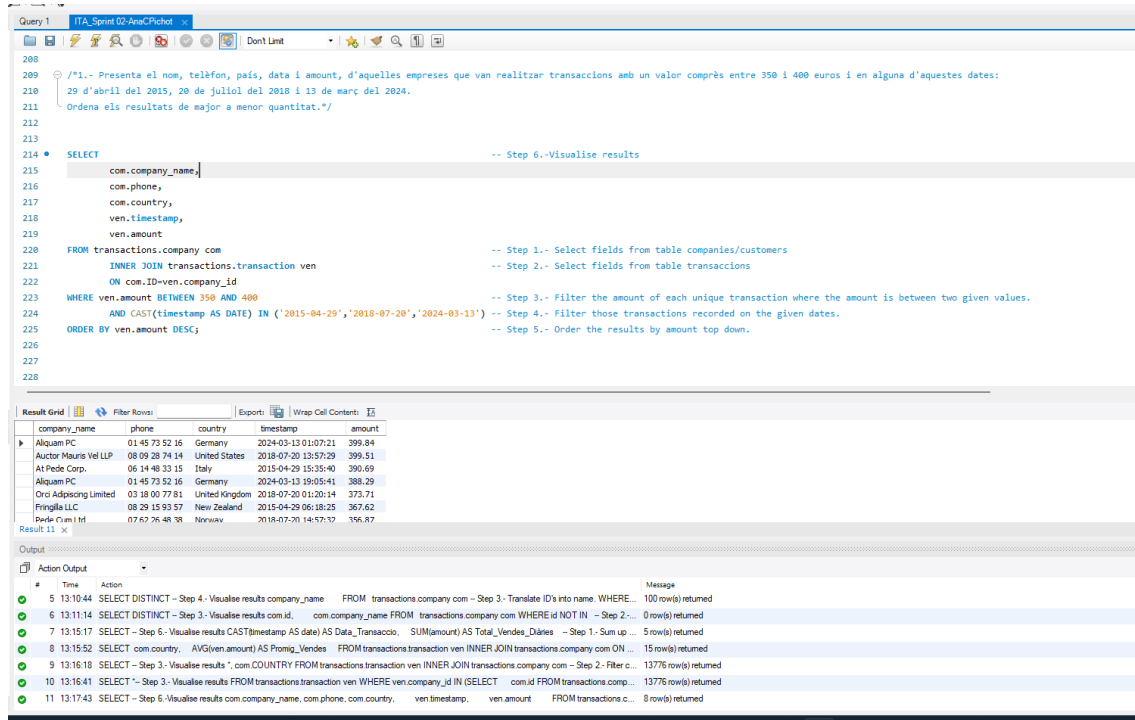
```
-- ITA - Sprint 02-Anàl-Pictol --
163 com.country
164 ORDER BY Promig_Vendes DESC;
165
166 -- En la teva empresa, es planteja un nou projecte per a llançar algunes campanyes publicitàries per a fer competència a la companyia "Non Institute".
167 -- Per a això, et demanen la llista de totes les transaccions realitzades per empreses que estan situades en el mateix país que aquesta companyia.
168
169 -- Mostra el llistat aplicant JOIN i subconsultes
170 SELECT * -- Step 3.- Visualise results
171 FROM transactions.transaction ven
172 INNER JOIN transactions.company com
173 ON ven_company_id=com.id
174 WHERE com.COUNTRY IN
175 (SELECT com.COUNTRY
176 FROM transactions.company com
177 WHERE com_company_name='Non Institute')
178 );
179
180 Result Grid | Filter Rows: | Export: | Wrap Cell Contents: | Fetch rows:
181
182 id credit_card_id company_id user_id lat longitude timestamp amount declined id company_name phone email country website COUNTRY
183 0062984-C3A9-406C-A3D2-73FDA476C546 CS-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 nih@yahoo.org United Kingdom https://cm.com/one United Kingdom
184 0F07B84-5A43-48E1-B13F-253535A17A CS-8475 b-2246 3894 55.6212 -3.7546 2017-10-28 22:08:26 414.06 0 b-2246 Sed Nunc Ltd 02 62 64 73 48 nih@yahoo.org United Kingdom https://cm.com/one United Kingdom
185 01F07581-07AE-4D02-4AD9-5FFD72A49F3C CS-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 nih@yahoo.org United Kingdom https://cm.com/one United Kingdom
186 023FFCE8-E518-4938-8F56-3CDF80540AD0 CS-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 nih@yahoo.org United Kingdom https://cm.com/one United Kingdom
187 02683EB EF91-4564-957B-D6F1662AB7C5 CS-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 nih@yahoo.org United Kingdom https://cm.com/one United Kingdom
188 02C3F29E-CE2A-4C1E-A594-F476BF8Z29C0 CS-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 nih@yahoo.org United Kingdom https://cm.com/one United Kingdom
189 0794609C-47AC-47C7-89D4-7DB01973A81AF CS-6413 h-2246 2332 50.175 19.5598 2013-03-17 18:36:27 305.35 0 b-2246 Sed Nunc Ltd 02 62 64 73 48 nih@yahoo.org United Kingdom https://cm.com/one United Kingdom
190
191 Output
192 Action Output
193 # Time Action Message
194 3 13:04:52 SELECT DISTINCT -- Step 5.- Select and visualise fields ven_company_id, com_company_name, com_country, ROUND(AVG(amount),2) AS v... 1 row(s) returned
195 4 13:10:05 SELECT -- Step 2.- Visualise fields FROM transactions.transaction ven WHERE company_id IN (SELECT ID FROM transactions.comp... 13291 row(s) returned
196 5 13:10:44 SELECT DISTINCT -- Step 4.- Visualise results company_name FROM transactions.transaction ven WHERE id NOT IN (SELECT ... 100 row(s) returned
197 6 13:11:14 SELECT DISTINCT -- Step 3.- Visualise results com_id, com_company_name FROM transactions.transaction ven WHERE id NOT IN (SELECT ... 0 row(s) returned
198 7 13:15:17 SELECT -- Step 6.- Visualise results CAST(timestamp AS date) AS Data_Transaccio, SUM(amount) AS Total_Vendes_Diaries -- Step 1.- Sum up ... 5 row(s) returned
199 8 13:15:52 SELECT com_country, AVG(ven.amount) AS Promig_Vendes FROM transactions.transaction ven INNER JOIN transactions.transaction ven ON ... 15 row(s) returned
200 9 13:16:18 SELECT -- Step 3.- Visualise results *, com_COUNTRY FROM transactions.transaction ven INNER JOIN transactions.transaction ven ON ... 13776 row(s) returned
201
202 Query 1 ITA - Sprint 02-Anàl-Pictol
203
204 -- Mostra el llistat aplicant solament subconsultes
205 SELECT * -- Step 3.- Visualise results
206 FROM transactions.transaction ven
207 WHERE ven_company_id IN
208 (SELECT
209 com_id
210 FROM transactions.transaction ven
211 WHERE com_country IN
212 (SELECT com_country
213 FROM transactions.transaction ven
214 WHERE com_company_name='Non Institute'));
215
216 ----- nivell 3 -----
217 /* Exercici 1
218 Presenta el nom, telèfon, país, data i import, d'aquelles empreses que van realitzar transaccions amb un valor comprès entre 350 i 400 euros i en alguna d'aquestes dates:
219 29 d'abril del 2015, 20 de juliol del 2018 i 13 de març del 2024.
220 Ordna els resultats de major a menor quantitat.
221
222 Exercici 2
```


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.



```

209
210 /*!- 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:
211 29 d'abril del 2015, 20 de juliol del 2018 i 13 de març del 2024.
212 Ordena els resultats de major a menor quantitat.*/
213
214 * SELECT -- Step 6.-Visualise results
215     com.company_name,
216     com.phone,
217     com.country,
218     ven.timestamp,
219     ven.amount
220 FROM transactions.company com -- Step 1.- Select fields from table companies/customers
221     INNER JOIN transactions.transaction ven -- Step 2.- Select fields from table transaccions
222     ON com.ID=ven.company_id
223 WHERE ven.amount BETWEEN 350 AND 400 -- Step 3.- Filter the amount of each unique transaction where the amount is between two given values.
224     AND CAST(timestamp AS DATE) IN ('2015-04-29','2018-07-20','2024-03-13') -- Step 4.- Filter those transactions recorded on the given dates.
225 ORDER BY ven.amount DESC; -- Step 5.- Order the results by amount top down.
226
227
228

```

company_name	phone	country	timestamp	amount
Alquam PC	01 45 73 52 16	Germany	2024-03-13 01:07:21	399.84
Auctor Mauris Vel LLP	08 09 28 74 14	United States	2018-07-20 13:57:29	399.51
At Pede Corp.	06 14 48 33 15	Italy	2015-04-29 15:35:40	390.69
Alquam PC	01 45 73 52 16	Germany	2024-03-13 19:05:41	388.29
Oro Adipiscing Limited	03 18 00 77 81	United Kingdom	2018-07-20 01:20:14	373.71
Fringilla LLC	08 28 15 93 57	New Zealand	2015-04-29 06:18:25	367.62
Pede Cum I M	07 62 26 48 38	Norway	2018-07-20 14:57:12	156.87

Result 11 x

Output

Action Output

#	Time	Action	Message
5	13:10:44	SELECT DISTINCT -- Step 4.- Visualise results company_name	FROM transactions.company com -- Step 3.- Translate ID's into name. WHERE... 100 row(s) returned
6	13:11:14	SELECT DISTINCT -- Step 3.- Visualise results com.id,	com company_name FROM transactions.company com WHERE id NOT IN -- Step 2.-... 0 row(s) returned
7	13:15:17	SELECT -- Step 6.- Visualise results CAST(timestamp AS date) AS Data, Transaccio,	SUM(amount) AS Total_Vendes_Diaries -- Step 1.- Sum up ... 5 row(s) returned
8	13:15:52	SELECT com.country,	AVG(ven.amount) AS Promig_Vendes FROM transactions.transaction ven INNER JOIN transactions.company com ON ... 15 row(s) returned
9	13:16:18	SELECT -- Step 3.- Visualise results , com.COUNTRY FROM transactions.transaction ven INNER JOIN transactions.company com -- Step 2.- Filter c...	13776 row(s) returned
10	13:16:41	SELECT -- Step 3.- Visualise results FROM transactions.transaction ven WHERE ven.company_id IN (SELECT	com.id FROM transactions.comp... 13776 row(s) returned
11	13:17:43	SELECT -- Step 6.- Visualise results com.company_name, com.phone, com.country,	ven.timestamp, ven.amount FROM transactions.c... 8 row(s) returned

Nivell 3. 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.

Query 1 ITA_Sprint 02-AnaCPichot

227
228
229 /* 2.- Necesitem optimitzar l'assignació dels recursos i dependrà de la capacitat operativa que es requereixi,
230 per la qual cosa et demanen la informació sobre la quantitat de transaccions que realitzen les empreses,
231 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.*/
232
233
234 • SELECT DISTINCT -- Step 5.-Visualise results
235 ven.company_id AS ID_Companyia,
236 (CASE
237 WHEN COUNT(DISTINCT ven.id) >400 THEN 'Above 400'
238 ELSE 'Below 400'
239 END) AS 'Results'
240 FROM transactions.transaction ven -- Step 1.- Create a temporary column in which we can type above o below the values depending on the value of the total count of unique transactions.
241 WHERE ven.declined=0 -- Setp 2.- Filter only those transaction completed
242 GROUP BY ven.company_id -- Step 3.- Sum up the total quantity of unique transactions per company
243 ORDER BY Results DESC; -- Step 4.- Order the results Top Down
244
245
246 ----- FIN -----
247

Result Grid | Filter Rows: | Export: | Wrap Cell Contents: |

ID_Companyia	Results
b-2470	Below 400
b-2286	Below 400
b-2362	Below 400
b-2578	Below 400
b-2226	Above 400
b-2220	Above 400
b-2714	Above 400

Result 12: x

Output

#	Time	Action	Message
6	13:11:14	SELECT DISTINCT - Step 3.- Visualise results com.id, com.company_name FROM transactions.company com WHERE id NOT IN - Step 2...	0 row(s) returned
7	13:15:17	SELECT - Step 6.- Visualise results CAST(timestamp AS date) AS Data_Transaccio, SUM(amount) AS Total_Vendes_Diaries - Step 1.- Sum up ...	5 row(s) returned
8	13:15:52	SELECT com.country, AVG(ven.amount) AS Promig_Vendes FROM transactions.transaction ven INNER JOIN transactions.company com ON ...	15 row(s) returned
9	13:16:18	SELECT - Step 3.- Visualise results com.country FROM transactions.transaction ven INNER JOIN transactions.company com - Step 2.- Filter c...	13776 row(s) returned
10	13:16:41	SELECT - Step 3.- Visualise results FROM transactions.transaction ven WHERE ven.company_id IN (SELECT com.id FROM transactions.comp...	13776 row(s) returned
11	13:17:43	SELECT - Step 6.- Visualise results com.company_name, com.phone, com.country, ven.timestamp, ven.amount FROM transactions.c...	8 row(s) returned
12	13:18:11	SELECT DISTINCT - Step 5.- Visualise results ven.company_id AS ID_Companyia, (CASE WHEN COUNT(DISTINCT ven.id) >400 THEN 'Abo...	100 row(s) returned