





## Sprint 02

### - Exercici 1

Mostra totes les transaccions realitzades per empreses d'Alemanya.

```
1 #ex1
2
3 • select company.country, company.id, company_name, transaction.amount from company
4 join transaction on company_id = company.id
5 and company.country = "Germany"
6 group by company.country, company.id, company_name, transaction.amount
7 order by amount desc;
```

<

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

	country	id	company_name	amount
▶	Germany	b-2302	Nunc Interdum Incorporated	499.23
	Germany	b-2302	Nunc Interdum Incorporated	497.84
	Germany	b-2566	Aliquam PC	490.19
	Germany	b-2302	Nunc Interdum Incorporated	487.64
	Germany	b-2302	Nunc Interdum Incorporated	485.31
	Germany	b-2302	Nunc Interdum Incorporated	476.75
	Germany	b-2302	Nunc Interdum Incorporated	476.33
	Germany	b-2302	Nunc Interdum Incorporated	474.76
	Germany	b-2302	Nunc Interdum Incorporated	474.70
	Germany	b-2306	Augue Foundation	466.55
	Germany	b-2302	Nunc Interdum Incorporated	462.35
	Germany	b-2302	Nunc Interdum Incorporated	458.66
	Germany	b-2302	Nunc Interdum Incorporated	458.52
	Germany	b-2302	Nunc Interdum Incorporated	451.66
	Germany	b-2302	Nunc Interdum Incorporated	444.82
	Germany	b-2302	Nunc Interdum Incorporated	436.59
	Germany	b-2302	Nunc Interdum Incorporated	433.66
	Germany	b-2302	Nunc Interdum Incorporated	430.49
	Germany	b-2302	Nunc Interdum Incorporated	423.71
	Germany	b-2302	Nunc Interdum Incorporated	421.00
	Germany	b-2302	Nunc Interdum Incorporated	420.59
	Germany	b-2302	Nunc Interdum Incorporated	417.70
	Germany	b-2302	Nunc Interdum Incorporated	411.64
	Germany	b-2302	Nunc Interdum Incorporated	399.33
	Germany	b-2302	Nunc Interdum Incorporated	397.29
	Germany	b-2358	Ac Industries	396.15
	Germany	b-2302	Nunc Interdum Incorporated	393.51
	Germany	b-2302	Nunc Interdum Incorporated	390.10
	Germany	b-2302	Nunc Interdum Incorporated	388.04
	Germany	b-2302	Nunc Interdum Incorporated	387.27
	Germany	b-2302	Nunc Interdum Incorporated	371.35

Result 25 ×

## - Exercici 2

Màrqueting està preparant alguns informes de tancaments de gestió, et demanen que els passis un llistat de les empreses que han realitzat transaccions per una suma superior a la mitjana de totes les transaccions.

```
9      #ex2
10 •   select avg(amount) from transaction;
11      #avg total amount = 256,735520
12 •   select company.company_name, company.id, company.country, transaction.amount from company
13      inner join transaction on transaction.company_id = company.id
14      where amount > (select avg(amount) from transaction)
15      order by amount desc;
```

<

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

	company_name	id	country	amount
▶	Nunc Interdum Incorporated	b-2302	Germany	499.23
	Nunc Interdum Incorporated	b-2302	Germany	497.84
	Enim Condimentum Ltd	b-2326	United Kingdom	494.82
	Arcu LLP	b-2278	Norway	494.17
	Non Institute	b-2618	United Kingdom	492.42
	Malesuada PC	b-2494	Ireland	492.25
	Ut Semper Foundation	b-2346	Sweden	492.19
	Aliquam PC	b-2566	Germany	490.19
	Nunc Interdum Incorporated	b-2302	Germany	487.64
	Arcu LLP	b-2278	Norway	486.83
	Malesuada PC	b-2494	Ireland	486.54
	Nunc Interdum Incorporated	b-2302	Germany	485.31
	Malesuada PC	b-2494	Ireland	485.05
	Ut Semper Foundation	b-2346	Sweden	483.96
	Eget Ipsum Ltd	b-2398	United States	481.86
	Lorem Eu Incorporated	b-2362	Canada	481.75
	Magna A Neque Industries	b-2226	Australia	480.13
	Enim Condimentum Ltd	b-2326	United Kingdom	479.52
	Malesuada PC	b-2494	Ireland	479.00
	Arcu LLP	b-2278	Norway	478.87
	Enim Condimentum Ltd	b-2326	United Kingdom	478.54
	Non Magna LLC	b-2310	United Kingdom	477.95
	Sed Id Limited	b-2410	United States	477.51
	Neque Tellus Incorporated	b-2382	Ireland	477.10
	Nunc Interdum Incorporated	b-2302	Germany	476.75
	Nunc Interdum Incorporated	b-2302	Germany	476.33
	Non Institute	b-2618	United Kingdom	475.06
	Nunc Interdum Incorporated	b-2302	Germany	474.76
	Nunc Interdum Incorporated	b-2302	Germany	474.70
	Enim Condimentum Ltd	b-2326	United Kingdom	472.18
	Ut Semper Foundation	b-2346	Sweden	471.98

Result 26 ×

### - Exercici 3

El departament de comptabilitat va perdre la informació de les transaccions realitzades per una empresa, però no recorden el seu nom, només recorden que el seu nom iniciava amb la lletra c. Com els pots ajudar? Comenta-ho acompanyant-ho de la informació de les transaccions.

```
17 #ex 3
18 • select company.id, company_name, phone, email, country, website, transaction.amount, date(timestamp) as order_date from company
19 join transaction on company.id = company_id
20 and company_name LIKE "C%"
21 order by transaction.amount desc;
```

	id	company_name	phone	email	country	website	amount	order_date
▶	b-2234	Convallis In Incorporated	06 66 57 29 50	mauris.ut@aol.co.uk	Germany	https://crn.com/user/110	252.47	2021-04-17
	b-2514	Cras Consulting	07 50 10 85 63	sed.consequat@google.ca	Belgium	https://baidu.com/en-us	230.41	2021-11-28
	b-2554	Cras Vehicula Aliquet Industries	03 37 86 87 75	arcu@hotmail.org	Netherlands	https://google.com/sub	181.87	2021-10-27
	b-2554	Cras Vehicula Aliquet Industries	03 37 86 87 75	arcu@hotmail.org	Netherlands	https://google.com/sub	158.05	2021-07-23
	b-2234	Convallis In Incorporated	06 66 57 29 50	mauris.ut@aol.co.uk	Germany	https://crn.com/user/110	60.99	2021-04-15
	b-2514	Cras Consulting	07 50 10 85 63	sed.consequat@google.ca	Belgium	https://baidu.com/en-us	60.93	2021-03-18

### - Exercici 4

Van eliminar del sistema les empreses que no tenen transaccions registrades, lliura el llistat d'aquestes empreses.

```
23 #ex4
24 • SELECT distinct company_name FROM company
25 WHERE not EXISTS (SELECT * FROM transaction
26 WHERE company.id = company_id);
```

	company_name
--	--------------

## Nivell 2

### Exercici 1

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.

```
29 #ex2.1 (senar institute es non institute)
30 • select * from company
31   where company_name = "non institute";
32       #country = united kingdom
33 • select distinct company_name, country, transaction.amount, date(timestamp) from company
34   join transaction
35   where company_id = company.id
36     and country = "united kingdom"
37   order by company_name asc;
```

Result Grid				
Filter Rows: <input type="text"/>				
Export:				
Wrap Cell Content:				
	company_name	country	amount	date(timestamp)
▶	Ac Libero Inc.	United Kingdom	30.76	2022-02-27
	Ac Libero Inc.	United Kingdom	186.34	2021-06-28
	Amet Fautibus Ut Foundation	United Kingdom	220.85	2021-09-06
	Amet Fautibus Ut Foundation	United Kingdom	144.33	2021-05-26
	Enim Condimentum Ltd	United Kingdom	494.82	2021-08-21
	Enim Condimentum Ltd	United Kingdom	123.25	2022-01-28
	Enim Condimentum Ltd	United Kingdom	309.45	2021-08-09
	Enim Condimentum Ltd	United Kingdom	395.43	2021-07-05
	Enim Condimentum Ltd	United Kingdom	195.06	2021-07-06
	Enim Condimentum Ltd	United Kingdom	479.52	2022-01-03
	Enim Condimentum Ltd	United Kingdom	43.90	2021-08-26
	Enim Condimentum Ltd	United Kingdom	122.63	2021-10-01
	Enim Condimentum Ltd	United Kingdom	91.59	2021-04-06
	Enim Condimentum Ltd	United Kingdom	303.60	2021-07-26
	Enim Condimentum Ltd	United Kingdom	365.83	2021-12-26
	Enim Condimentum Ltd	United Kingdom	271.27	2021-10-09
	Enim Condimentum Ltd	United Kingdom	441.27	2021-04-25
	Enim Condimentum Ltd	United Kingdom	478.54	2021-03-29
	Enim Condimentum Ltd	United Kingdom	393.42	2021-07-25
	Enim Condimentum Ltd	United Kingdom	45.63	2022-01-16
	Enim Condimentum Ltd	United Kingdom	335.54	2022-01-06
	Enim Condimentum Ltd	United Kingdom	193.33	2021-04-23
	Enim Condimentum Ltd	United Kingdom	149.89	2021-04-29
	Enim Condimentum Ltd	United Kingdom	411.81	2021-12-24
	Enim Condimentum Ltd	United Kingdom	38.02	2021-11-13
	Enim Condimentum Ltd	United Kingdom	304.43	2022-02-12
	Enim Condimentum Ltd	United Kinadom	409.68	2021-03-23

### Exercici 2

El departament de comptabilitat necessita que trobis l'empresa que ha realitzat la transacció de major suma en la base de dades.

```
39 #ex2.2
40 • select company_name, transaction.amount from company
41   inner join transaction
42   where transaction.company_id = company.id
43   order by amount desc limit 1;
44
```

Result Grid		
Filter Rows: <input type="text"/>		
Export:		
Wrap Cell Content:		
Fetch rows: <input type="text"/>		
	company_name	amount
▶	Nunc Interdum Incorporated	499.23

### Nivell 3

#### Exercici 1

S'estan establint els objectius de l'empresa per al següent trimestre, per la qual cosa necessiten una base sòlida per a avaluar el rendiment i mesurar l'èxit en els diferents mercats. Per a això, necessiten el llistat dels països la mitjana de transaccions dels quals sigui superior a la mitjana general.

```
45 #ex3.1
46 • select country, avg(amount) from company
47 inner join transaction
48 on transaction.company_id = company.id
49 where amount > (select avg(amount) from transaction)
50 group by country
51 order by avg(amount) desc;
```

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

	country	avg(amount)
▶	United States	427.539000
	Netherlands	399.750000
	United Kingdom	393.221887
	Italy	383.525000
	Germany	381.584909
	Australia	380.288333
	Sweden	378.252619
	Ireland	376.804722
	Belgium	373.522000
	Norway	370.291515
	Canada	368.958235
	France	343.500000
	New Zealand	329.566000
	China	289.040000

#### 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 4 transaccions o menys.

```
55 #ex3.2
56 • select company_name, count(transaction.company_id) as num_of_orders,
57 if(count(transaction.company_id) >=4, "más de cuatro pedidos", "menos de cuatro pedidos") as mas_o_menos
58 from company
59 inner join transaction
60 on transaction.company_id = company.id
61 group by company_name
62 order by num_of_orders desc;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: F

	company_name	num_of_orders	mas_o_menos
▶	Nunc Interdum Incorporated	105	más de cuatro pedidos
	Ut Semper Foundation	59	más de cuatro pedidos
	Enim Conditum Ltd	57	más de cuatro pedidos
	Arcu LLP	56	más de cuatro pedidos
	Lorem Eu Incorporated	54	más de cuatro pedidos
	Malesuada PC	52	más de cuatro pedidos
	Non Institute	30	más de cuatro pedidos
	Fusce Corp.	2	menos de cuatro pedidos
	Convallis In Incorporated	2	menos de cuatro pedidos
	Ante Jaculis Nec Foundation	2	menos de cuatro pedidos
	Donec Ltd	2	menos de cuatro pedidos
	Sed Nunc Ltd	2	menos de cuatro pedidos
	Amet Nulla Donec Corporation	2	menos de cuatro pedidos
	Nascetur Ridiculus Mus Inc.	2	menos de cuatro pedidos
	Vestibulum Lorem PC	2	menos de cuatro pedidos
	Gravida Sagittis LLP	2	menos de cuatro pedidos
	Mus Aenean Eget Foundation	2	menos de cuatro pedidos

Result 24 x