

Capturas de pantalla de workbench

Navigator: SQL File 13* Tasca M4 T1* ExamenSQL person person_region noc_region transactions company transaction

SCHEMAS

Filter objects

- hospitals
- olympics
- sys
- transactions
 - Tables
 - company
 - Columns
 - id
 - company_name
 - phone
 - email
 - country
 - website
 - Indexes
 - Foreign Keys
 - Triggers
 - transaction
 - Columns
 - id
 - credit_card_id
 - company_id
 - user_id
 - lat
 - longitude
 - timestamp
 - amount
 - declined
 - Indexes
 - Foreign Keys
 - Triggers
 - Views
 - Stored Procedures
 - Functions

Administration Schemas

Information

Table: company

Columns:

id	varchar(15)
company_name	varchar(255)
phone	varchar(15)
email	varchar(100)
country	varchar(100)
website	varchar(255)

Object Info Session

```

4  -- 1) Llistat dels països que estan fent compres.
5  • SELECT DISTINCT country
6  FROM transaction
7  JOIN company on transaction.company_id = company.id
8  WHERE transaction.declined = 0
9  ORDER BY country ASC;
10

```

Result Grid

country
Australia
Belgium
Canada
China
France
Germany
Ireland
Italy
Netherlands
New Zealand
Norway
Spain
Sweden
United King...
United States

Result 49 x

Output

Action Output

#	Time	Action	Message
50	20:37:50	SELECT country, AVG(amount) FROM transaction JOIN company ON company.id = transaction.company_id GROUP...	15 row(s) returned
51	20:37:50	SELECT * FROM transaction JOIN company ON company.id = transaction.company_id WHERE country LIKE (SEL...	100 row(s) returned
52	20:37:50	SELECT * FROM transaction WHERE company_id IN (SELECT company_id FROM company WHERE country LIKE...	100 row(s) returned
53	20:37:50	SELECT company_name, phone, country, DATE(timestamp) AS FECHA, amount FROM transaction JOIN company ...	5 row(s) returned
54	20:37:50	SELECT company_name, COUNT(*) FROM transaction JOIN company ON company.id = transaction.company_id - ...	93 row(s) returned
55	20:37:52	SELECT DISTINCT country FROM transaction JOIN company on transaction.company_id = company.id WHERE tra...	15 row(s) returned

10

11 -- 2) Des de quants països es realitzen les compres.

12 • **SELECT** COUNT(**DISTINCT** country) **as** num_country

13 **FROM** company

14 **JOIN** transaction **on** transaction.company_id = company.id

15 **WHERE** transaction.declined = 0;

16

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

num_country
15

17 -- 3) Identifica la companyia amb la mitjana més gran de vendes.

18 • **SELECT** company_name, AVG(amount) **as** media

19 **FROM** company

20 **JOIN** transaction **on** transaction.company_id = company.id

21 **WHERE** transaction.declined = 0

22 **GROUP BY** company_name

23 **ORDER BY** AVG(amount) **DESC**

24 **limit** 1;

25

-- . . .

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

company_name	media
Eget Ipsum Ltd	481.860000

Don't Limit

```

25
26 -- Exercici 3
27 -- Utilitzant només subconsultes (sense utilitzar JOIN):
28
29 -- 1) Mostra totes les transaccions realitzades per empreses d'Alemanya.
30 • SELECT *
31 FROM transaction
32 where company_id in (SELECT company.id
33                      FROM company
34                      WHERE country = 'Germany');
35
36
37 -- 2) Llista les empreses que han realitzat transaccions per un amount superior a la mitjana de totes les transaccions

```

Result Grid

	id	credit_card_id	company_id	user_id	lat	longitude	timestamp	amount	declined
▶	108B1D1D-5B23-A76C-55EF-C568E49A05DD	CdU-2938	b-2222	275	83.7839	-178.86	2021-07-07 17:43:16	293.57	0
	EA2C3281-C9C1-A387-44F8-729FB4B51C76	CdU-2938	b-2222	275	20.2004	-116.84	2021-05-09 10:25:08	119.36	1
	0DD2E608-5C9E-D1B3-4999-B99F43AD735A	CdU-2959	b-2234	275	9.68811	130.282	2021-04-17 05:30:17	252.47	1
	AB069F53-965E-A2A8-CE06-CA8C4FD92501	CdU-2959	b-2234	275	1.64819	-158.007	2021-04-15 13:37:18	60.99	0
	0466A42E-47CF-8D24-FD01-C0B689713128	CdU-4219	b-2302	170	-43.9695	-117.525	2021-07-26 07:29:18	49.53	0
	0A476ED9-0C13-1962-F87B-D3563924B539	CdU-4359	b-2302	221	-56.4901	114.801	2022-02-26 20:33:54	430.49	0
	122DC333-E19F-D629-DCD8-9C54CF1EBB9A	CdU-4366	b-2302	221	29.6372	-166.173	2021-06-09 06:04:14	172.01	0
	135267BA-2E7D-957C-C42C-6450A2B3ED54	CdU-4520	b-2302	210	20.6724	14.9732	2021-12-29 20:38:23	17.97	0
	14CAE5B5-8FB1-3E4A-4C85-0EA4167534F4	CdU-4849	b-2302	189	-53.6202	93.0533	2021-12-31 00:29:42	388.04	0
	158A3ACB-541C-DBCC-65BD-6373CC67BF1C	CdU-4849	b-2302	183	42.5424	-170.347	2022-03-08 05:02:19	240.29	0
	162C7E78-2B6B-7971-A1E4-D2124E732451	CdU-4527	b-2302	210	-69.1381	58.0017	2021-04-11 05:59:18	231.26	0
	1717FD68-ADAD-7082-A748-9112BE892CCC	CdU-4219	b-2302	172	69.4892	-138.411	2021-12-29 16:18:54	249.91	0
	1753A288-9FC1-52E6-5C39-A1FFB9780D3A	CdU-4345	b-2302	222	57.9422	-114.729	2021-08-17 05:32:08	497.84	0
	186F53DE-DE27-B1FE-B82F-15B61CEB7726	CdU-4310	b-2302	225	-72.7448	36.6211	2021-12-20 13:13:45	238.16	0
	18C4E2DD-1E4C-F35E-2198-C660BD81DC25	CdU-4849	b-2302	177	68.0133	91.4839	2021-09-24 18:55:25	237.04	0
	18CCBA7C-ABC1-813D-FAF3-4B4B97429368	CdU-4219	b-2302	173	51.3881	-156.371	2021-06-21 03:21:34	58.16	0
	19E1EC3E-2119-1EFD-8AAE-5930D4A4E63F	CdU-4219	b-2302	154	-56.0839	116.987	2021-07-06 21:40:15	29.63	0
	1B117D49-936C-BA6C-E94B-30C3293AA239	CdU-4219	b-2302	163	-75.099	109.034	2021-05-09 23:56:04	371.35	0
	1B521826-5860-5A86-5364-6EB6A5CC21B7	CdU-4226	b-2302	231	-53.4613	49.1484	2021-08-14 02:39:50	476.33	0
	1C3B3CC4-B919-7616-6A57-EEBDD7B7B68B	CdU-4415	b-2302	217	81.1737	62.8835	2021-09-27 16:07:34	462.35	0
	2075B12D-69AB-7022-57B8-33ED49B72766	CdU-4247	b-2302	229	-9.03682	88.9005	2022-02-13 04:07:29	87.44	0
	241827A6-E87C-6DA3-5AC9-BBCFD42B7D2A	CdU-4849	b-2302	190	-12.1172	-175.322	2021-08-04 04:44:35	487.64	0

transaction 66 x

Output

Action Output

#	Time	Action	Message
✓ 1	20:54:40	SELECT * FROM transaction where company_id in (SELECT company.id FROM company WHERE country = 'Germany')	118 row(s) returned

36

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

38 • **SELECT** company_name

39 **FROM** company

40 **WHERE** company.id **IN** (**SELECT** company_id

41 **from** transaction

42 **WHERE** amount >(**SELECT** AVG(amount) **FROM** transaction));

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

company_name
Ac Fermentum Incorporated
Magna A Neque Industries
Fusce Corp.
Ante Iaculis Nec Foundation
Donec Ltd
Sed Nunc Ltd
Nascetur Ridiculus Mus Inc.
Vestibulum Lorem PC
Gravida Sagittis LLP
Mus Aenean Eget Foundation
Dis Parturient Institute
Sed LLC
Arcu LLP
Fringilla LLC
Elit Etiam Laoreet Associates
Nunc Interdum Incorporated
Augue Foundation
Non Magna LLC
A Institute
Quam A Felis Industries
Integer Mollis Corp.
Enim Condimentum Ltd
Donec Fringilla PC
Amet Institute
Magna Incorporated
Fringilla Porttitor Incorporated
Ut Sempor Foundation

company 56 x

Output

Action Output

#	Time	Action	Message
1	20:44:11	SELECT company_name FROM company WHERE company.id IN (SELECT company_id from transaction WHERE am...	70 row(s) returned

44 -- 3) Eliminaren del sistema les empreses que no tenen transaccions registrades, entrega el llistat d'aquestes empreses.

45

46 • **SELECT** COUNT(company_name)

47 **FROM** company

48 **WHERE** company.id **in** (**SELECT** company_id **from** transaction **WHERE** amount = 0);

49

50

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

COUNT(company_name)
0

51 -- Nivell 2
 52 -- Exercici 1
 53 -- Identifica els cinc dies que es va generar la quantitat més gran d'ingressos a l'empresa per vendes.
 54 -- Mostra la data de cada transacció juntament amb el total de les vendes.

```

56 • SELECT DATE(timestamp) AS FECHA, SUM(amount) AS VENTAS_TOTAL
57 FROM transaction
58 WHERE declined = FALSE
59 GROUP BY DATE(timestamp)
60 ORDER BY VENTAS_TOTAL DESC

```

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

	FECHA	VENTAS_TOTAL
▶	2021-12-20	1532.36
	2021-04-22	1397.96
	2021-05-09	1344.37
	2022-02-26	1337.62
	2021-03-29	1325.12

63 -- Exercici 2
 64 -- Quina és la mitjana de vendes per país? Presenta els resultats ordenats de major a menor mitjà.

```

65 • SELECT country, AVG(amount)
66 FROM transaction
67 JOIN company ON company.id = transaction.company_id
68 GROUP BY 1
69 ORDER BY 2 DESC;

```

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

	country	AVG(amount)
▶	United States	309.179412
	Ireland	277.308387
	United Kingdom	270.731700
	Canada	269.647869
	Sweden	260.615063
	Norway	254.216324
	Netherlands	253.017778
	Germany	244.203220
	Australia	232.052500
	Belgium	228.147692
	China	227.556667
	New Zealand	222.277273
	Italy	201.590000
	France	179.198333
	Spain	53.400000

Don't Limit

```

84
85 -- Mostra el llistat aplicant solament subconsultes.
86 • SELECT *
87 FROM transaction
88 WHERE company_id IN (SELECT company.id
89                      FROM company
90                      WHERE country LIKE (SELECT DISTINCT country
91                                         FROM company
92                                         WHERE company_name LIKE "Non Institute"));
93

```

Result Grid

	id	credit_card_id	company_id	user_id	lat	longitude	timestamp	amount	declined
▶	2B928E1C-EC14-A760-0A75-871477649D6A	CdU-2980	b-2246	275	-41.0496	161.685	2021-08-10 08:14:49	383.73	0
	ACD2011A-A2B1-C365-41E1-2AB00C65147A	CdU-2980	b-2246	275	-54.4792	-82.7974	2022-03-05 20:41:20	60.07	1
	4334349E-CEB0-3D68-A4D4-FEB7718A1ACE	CdU-3092	b-2310	275	-20.4859	150.87	2021-05-03 22:37:23	458.74	0
	BC2B9A38-77B4-28CD-1FE8-14DED863E773	CdU-3092	b-2310	275	-78.0295	18.5295	2021-10-18 07:27:35	477.95	1
	1479B3D2-B7BA-C7BB-4CE3-8D7C2DE85ABB	CdU-2994	b-2326	133	66.2672	172.399	2021-08-09 00:58:07	309.45	0
	152598C2-029D-D684-4B66-91EDF393EBFF	CdU-2994	b-2326	126	-67.0189	-141.672	2021-07-05 03:10:00	395.43	0
	1B636B58-A2E8-7C69-D9C9-C5453DAFD3B	CdU-2994	b-2326	131	70.2543	-13.1336	2021-07-06 08:48:46	195.06	0
	20418DE5-B804-BE9B-BD7A-A95C1BFD8F5C	CdU-2994	b-2326	126	-79.1145	1.51481	2022-01-03 15:59:29	479.52	0
	239B8576-6C0E-137A-C2F6-3180A188A2D3	CdU-2994	b-2326	126	23.6174	137.222	2021-08-26 06:04:05	43.90	0
	267C4A86-7BA7-1C5E-0718-2824983C87DD	CdU-2994	b-2326	126	-17.5259	104.915	2021-10-01 21:08:53	122.63	0
	3142C93E-B3B7-49E4-EE2D-29CA834B198D	CdU-2994	b-2326	126	-67.8476	-119.978	2021-04-06 17:24:44	91.59	0
	3578688E-7B1D-B887-3BC7-20B8673AA31E	CdU-2994	b-2326	126	87.0665	-22.7339	2021-07-26 22:59:24	303.60	0
	360C7814-F7AF-B43A-0946-AB38D2683C86	CdU-2994	b-2326	116	-7.93005	-79.0733	2021-08-21 10:19:58	494.82	0
	391E1CFD-D653-E45B-A729-F2EB93247B58	CdU-2994	b-2326	118	60.5512	103.904	2021-10-09 00:50:38	271.27	0
	3C4D7C2A-A402-B941-625A-D64CA53526E8	CdU-2994	b-2326	117	23.1627	-10.381	2021-04-25 19:11:52	441.27	0
	3ED634C2-01CA-D6E9-2DBD-24B53A7912F7	CdU-4219	b-2326	137	69.0549	96.5033	2021-03-29 11:38:38	478.54	0
	3FEC4131-9BED-2EA6-1776-82674C80DDBB	CdU-2994	b-2326	126	-7.28469	179.063	2021-07-25 04:59:17	393.42	0
	41C13F08-471E-D475-3E14-760DF3F79B42	CdU-4219	b-2326	138	-51.7289	55.3294	2022-01-16 16:48:55	45.63	0
	41EC591D-808E-D85C-F05F-08B8C3DE7A618	CdU-2994	b-2326	126	5.38535	-78.3917	2022-01-06 07:47:39	335.54	0
	4217E857-1D51-5D25-B645-EC24D23C8759	CdU-2994	b-2326	129	65.4733	-20.2735	2021-04-23 13:07:58	193.33	0
	45CA3E45-6842-CAC4-7683-EBB69D523B3E	CdU-4219	b-2326	140	85.7055	36.1497	2021-04-29 06:17:02	149.89	0
	49CD105D-E569-3733-C8C8-3908ED7E1838	CdU-3393	b-2326	108	-47.8783	168.275	2021-12-24 23:43:59	411.81	0
	4ABE3D77-BF86-12D3-E1C5-22663D37C199	CdU-3120	b-2326	273	-63.6087	69.6023	2021-11-13 04:18:28	38.02	1
	4B74B94B-D123-7C7E-A9CE-7DA26F911F55	CdU-2994	b-2326	128	25.6024	53.4543	2022-02-12 14:27:28	304.43	0
	4D8E4891-1711-7D30-E4CB-645A8DF59A43	CdU-2994	b-2326	120	5.71915	-155.369	2021-12-26 01:49:19	365.83	0
	4F567A7B-99F9-8C87-734D-B6673BC9FF7F	CdU-3120	b-2326	273	-65.8033	158.1	2021-03-23 15:43:37	409.68	0

transaction 62 x

Output

Action Output

#	Time	Action	Message
✓ 1	20:50:19	SELECT * FROM transaction WHERE company_id IN (SELECT company.id FROM company WHERE country LIKE (SE...	100 row(s) returned

Don't Limit

```

95 -- Nivel 3
96 -- Ejercicio 1
97 -- Presenta el nombre, teléfono, país, fecha y amount, de aquellas empresas que realizaron transacciones con un valor comprendido entre 100 y 200 euros y
98 -- en alguna de estas fechas: 29 de abril de 2021, 20 de julio de 2021 y 13 de marzo de 2022. Ordena los resultados de mayor a menor cantidad.
99
100 • SELECT company_name, phone, country, DATE(timestamp) AS FECHA, amount
101 FROM transaction
102 JOIN company ON company.id = transaction.company_id
103 WHERE (amount BETWEEN 100 AND 200) AND (DATE(timestamp) IN ('2021-04-29', '2021-07-20', '2022-03-13'))
104 ORDER BY DATE(timestamp) DESC;
105

```

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

company_name	phone	country	FECHA	amount
Nunc Interdum Incorporated	05 18 15 48 13	Germany	2022-03-13	164.32
Lorem Eu Incorporated	0183 66 62 07	Canada	2021-07-20	133.39
Interdum Feugiat Sed Associates	04 88 40 32 52	United Kingdom	2021-07-20	164.86
Enim Conditum Ltd	09 55 51 66 25	United Kingdom	2021-04-29	149.89
Nunc Interdum Incorporated	05 18 15 48 13	Germany	2021-04-29	111.51

```

105
106 -- Ejercicio 2
107 -- Necesitamos optimizar la asignación de los recursos y dependerá de la capacidad operativa que se requiera,
108 -- por lo que te piden la información sobre la cantidad de transacciones que realizan las empresas,
109 -- pero el departamento de recursos humanos es exigente y quiere un listado de las empresas en las que especifiques si tienen más de 4 transacciones o menos.
110
111 • SELECT company_name, COUNT(*)
112 FROM transaction
113 JOIN company ON company.id = transaction.company_id
114 -- WHERE declined = FALSE ES POSIBLE QUE AL PEDIR TRANSACCIONES SON TODAS INCLUSO LAS RECHAZADAS
115 GROUP BY company_name
116 HAVING COUNT(*) <= 4;
117

```

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

company_name	COUNT(*)
Ac Fermentum Incorporated	2
Magna A Neque Industries	2
Fusce Corp.	2
Convalis In Incorporated	2
Ante Iaculis Nec Foundation	2
Donec Ltd	2
Sed Nunc Ltd	2
Amet Nulla Donec Corporation	2
Nascetur Ridiculus Mus Inc.	2
Vestibulum Lorem PC	2
Gravida Sagittis LLP	2
Mus Aenean Eget Foundation	2
Dis Parturient Institute	2
Sed LLC	2
Pretium Neque Corp.	2
Fringilla LLC	2
Quisque Libero LLC	2
Auctor Mauris Vel LLP	2
Elit Etiam Laoreet Associates	2
Augue Foundation	2
Non Magna LLC	2
A Institute	2

Result 64 x

Output

Action Output

#	Time	Action	Message
1	20:52:14	SELECT company_name, COUNT(*) FROM transaction JOIN company ON company.id = transaction.company_id -- WHERE...	93 row(s) returned