

Sprint 2

Nivell 1

Exercici 1

```
# Nivell 1
# Exercici 1
• select *
  from transaction
  where company_id in (
    select id
    from company
    where country = 'Germany');
```

	id	credit_card_id	company_id	user_id	lat	longitude	timestamp	amount	declined
▶	108B1D1D-5B23-A76C-55EF-C568E49A05DD	CcU-2938	b-2222	275	83.7839	-178.86	2021-07-07 17:43:16	293.57	0
	EA2C3281-C9C1-A387-44F8-729FB4B51C76	CcU-2938	b-2222	275	20.2004	-116.84	2021-05-09 10:25:08	119.36	1
	0DD2E608-5C9E-D1B3-4999-B99F43AD735A	CcU-2959	b-2234	275	9.68811	130.282	2021-04-17 05:30:17	252.47	1
	AB069F53-965E-A2A8-CE06-CA8C4FD92501	CcU-2959	b-2234	275	1.64819	-158.007	2021-04-15 13:37:18	60.99	0
	0466A42E-47CF-8D24-FD01-C0B689713128	CcU-4219	b-2302	170	-43.9695	-117.525	2021-07-26 07:29:18	49.53	0
	0A476ED9-0C13-1962-F87B-D3563924B539	CcU-4359	b-2302	221	-56.4901	114.801	2022-02-26 20:33:54	430.49	0
	122DC333-E19F-D629-DCD8-9C54CF1EB89A	CcU-4366	b-2302	221	29.6372	-166.173	2021-06-09 06:04:14	172.01	0
	1352678A-2E7D-957C-C42C-6450A2B3ED54	CcU-4520	b-2302	210	20.6724	14.9732	2021-12-29 20:38:23	17.97	0
	14CAE5B5-8FB1-3E4A-4C85-0EA4167534F4	CcU-4849	b-2302	189	-53.6202	93.0533	2021-12-31 00:29:42	388.04	0
	158A3ACB-541C-DBCC-65BD-6373CC67BF1C	CcU-4849	b-2302	183	42.5424	-170.347	2022-03-08 05:02:19	240.29	0
	162C7E78-2B68-7971-A1E4-D212E732451	CcU-4527	b-2302	210	-69.1381	58.0017	2021-04-11 05:59:18	231.26	0
	1717FD68-ADAD-7082-A748-9112BE892CCC	CcU-4219	b-2302	172	69.4892	-138.411	2021-12-29 16:18:54	249.91	0
	1753A288-9FC1-52E6-5C39-A1FFB97B0D3A	CcU-4345	b-2302	222	57.9422	-114.729	2021-08-17 05:32:08	497.84	0
	186F53DE-DE27-B1FE-B82F-15B61CEB7726	CcU-4310	b-2302	225	-72.7448	36.6211	2021-12-20 13:13:45	238.16	0
	18C4E2DD-1E4C-F35E-2198-C6608D81DC25	CcU-4849	b-2302	177	68.0133	91.4839	2021-09-24 18:55:25	237.04	0
	18CCBA7C-ABC1-813D-FAF3-4B8B97429368	CcU-4219	b-2302	173	51.3881	-156.371	2021-06-21 03:21:34	58.16	0
	19E1EC3E-2119-1EFD-8AAE-5930D4A4E63F	CcU-4219	b-2302	154	-56.0839	116.987	2021-07-06 21:40:15	29.63	0
	1B117D49-936C-BA6C-E94B-30C3293AA239	CcU-4219	b-2302	163	-75.099	109.034	2021-05-09 23:56:04	371.35	0
	1B521826-5860-5A86-5364-6EB6A5CC21B7	CcU-4226	b-2302	231	-53.4613	49.1484	2021-08-14 02:39:50	476.33	0
	1C3B3CC4-8919-7616-6A57-EEBDD7B7B688	CcU-4415	b-2302	217	81.1737	62.8835	2021-09-27 16:07:34	462.35	0
	2075B12D-69AB-7022-578B-33ED49B72766	CcU-4247	b-2302	229	-9.03682	88.9005	2022-02-13 04:07:29	87.44	0
	241827A6-E87C-6DA3-5AC9-BBCFD42B7D2A	CcU-4849	b-2302	190	-12.1172	-175.322	2021-08-04 04:44:35	487.64	0
	2585891B-C4C7-075E-358B-8575339E5177	CcU-4450	b-2302	215	32.9171	-40.6059	2021-08-24 05:32:36	253.49	0
	263035AA-8758-E413-8CC4-6D8F81B8FB99	CcU-4338	b-2302	223	36.61	83.1953	2021-06-21 11:23:01	499.23	0
	269A4715-2B19-521C-8FF4-A5E9F11FE5B0	CcU-4310	b-2302	140	-86.7357	162.107	2021-08-14 06:23:24	28.05	0

La taula ens mostra les transaccions de les empreses alemanes, ho podem comprobar manualment a la taula de company amb el seu ID.

Exercici 2

```
# Exercici 2
• select company_name
  from company
  where id in (
    select company_id
    from transaction
    where amount > (
      select avg(amount)
      from transaction))
;
```

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
Maena Incorporated

La taula de la dreta ens mostra una part de les empreses que han realitzat transaccions amb una valor major a la mitjana d'aquestes.

Exercici 3

```
# Exercici 3
select*
from transaction
where company_id in (
    select id
    from company
    where company_name like '%C%');
```

	id	credit_card_id	company_id	user_id	lat	longitude	timestamp	amount	declined
▶	108B1D1D-5B23-A76C-55EF-C568E49A05DD	CcU-2938	b-2222	275	83.7839	-178.86	2021-07-07 17:43:16	293.57	0
	EA2C3281-C9C1-A387-4F8-729F851C76	CcU-2938	b-2222	275	20.2004	-116.84	2021-05-09 10:25:08	119.36	1
	72997E96-DC2C-A4D7-7C24-66C302F8AE5A	CcU-2952	b-2230	275	43.3584	-17.658	2022-01-30 15:16:36	239.87	0
	8768FDE2-A231-8916-8644-F7DCD13CAFC2	CcU-2952	b-2230	275	82.4588	141.301	2021-05-06 05:33:39	460.38	1
	0002E608-5C9E-01B3-4999-B99F43AD735A	CcU-2959	b-2234	275	9.68811	130.282	2021-04-17 05:30:17	252.47	1
	AB069F53-965E-A2A8-CE06-CABC4FD92501	CcU-2959	b-2234	275	1.64819	-158.007	2021-04-15 13:37:18	60.99	0
	2F3B6AB6-147D-EB08-FEBD-9A4E2EA90BD5	CcU-2966	b-2238	275	-43.4811	16.6025	2021-10-18 06:12:03	33.81	0
	D6419ECE-BE11-7D9E-DEC7-1A2E695B19EB	CcU-2966	b-2238	275	-28.2177	-72.0755	2021-06-02 06:19:00	401.53	1
	52B1839C-D594-EB3D-4A72-730B1C8B08F4	CcU-2973	b-2242	275	-55.8151	-139.586	2021-07-31 23:03:21	364.61	1
	5B0EEF86-88A1-EFAA-5EE1-27E7DC8F54A4	CcU-2973	b-2242	275	-64.1136	85.2491	2022-01-06 01:44:48	42.82	0
	2B928E1C-EC14-A760-0A75-871477649D6A	CcU-2980	b-2246	275	-41.0496	161.685	2021-08-10 08:14:49	383.73	0
	ACD2011A-A2B1-C365-41E1-2AB00C65147A	CcU-2980	b-2246	275	-54.4792	-82.7974	2022-03-05 20:41:20	60.07	1

La taula ens mostra les transaccions de les empreses que comencen amb C.

Exercici 4

```
# Exercici 4
select company_name
from company
where id = (
    select company_id
    from transaction
    where company_id = (
        select company_id
        from transaction
        where amount is null)
    )
;
select company_id
from transaction
where user_id is null;
```

No hi ha nuls

Nivell 2

Exercici 1

Nivell 2

#Exercici 1

```
select *
from transaction
where company_id in (
  select id
  from company
  where country = (
    select country
    from company
    where company_name = 'Non Institute')
);
```

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
1479B3D2-87B4-C78B-4CE3-8D7C2DE85A8B	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-C5453DADF03B	CdU-2994	b-2326	131	70.2543	-13.1336	2021-07-06 08:48:46	195.06	0
20418DE5-8804-6E9B-8D7A-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	2021-10-11 21:08:53	122.63	0
3142C93E-83B7-49E4-EE2D-29CA834B198D	CdU-2994	b-2326	126	-67.8476	-119.978	2021-04-06 17:24:44	91.59	0
3578688E-7B1D-8887-3BC7-20B8673AA31E	CdU-2994	b-2326	126	87.0665	-22.7339	2021-07-26 22:59:24	303.60	0

La taula ens mostra les transaccions del mateix país que Non Institute

Exercici 2

```
#Exercici 2
select company_name
from company
where id in (
  select company_id
  from transaction
  where amount = (
    select max(amount)
    from transaction)
);
```

company_name
Nunc Interdum Incorporated

Nom de la companya amb la transacció més elevada

Niv 3 E.1

```
# Nivell 3

#Exercici 1
select company_name
from company
where id in (
  select company_id
  from transaction
  where amount > (
    select avg(amount)
    from transaction)
);
```

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 Semper Foundation

Llistat de les empreses que superen la mitjana de les transaccions.