

Sprint 2

SQL

Sergii_Korotun_Sprint_2

Características principales:

CREATE TABLE - Creacion de tabla;

INSERT INTO - Insertion de datos;

Campos con datos (**INT, VARCHAR, DATE, FLOAT, PRIMARY KEY**)

Tablas principales.

Company-informacion sobre empresa

Transactions-informacion sobre ventas

Vareables

Company - Id, company_name, phone, email, country, website

Transaction - id, credit_card_id, company_id, user_id, lat, longitude, amount,

Diagramma : Company -> Transaction.

Sergii_Korotun_Sprint_2(nivel1_1)

The screenshot shows the MySQL Workbench interface with the following details:

- Left Sidebar:** Administration, Schemas, MANAGEMENT (Server Status, Client Connections, Users and Privileges, Status and System Variables, Data Export, Data Import/Restore), MAINTENANCE (Startup / Shutdown, Server Logs, Options File), PERFORMANCE (Dashboard, Performance Reports, Performance Schema Setup).
- Central Area:** A query editor window with the following SQL code:

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

A result grid showing the output of the query:

count...
Neth...
Sweden
Ireland
Unite...
Belgium
Canada
Germ...
Norway
France
Italy
Unite...
New...
China
Spain
Austr...

Below the grid, the status "Result 1" is displayed, along with a "Read Only" icon.

- Bottom Area:** Action Output table showing session history. The table has columns: Object Info, Session, Time, Action, Response, Duration / Fetch Time. Some rows are partially visible:

Object Info	Session	Time	Action	Response	Duration / Fetch Time
ema: transactions		10...	SELECT COUNT(DISTINCT c.country) AS total_paises FROM transaction t JOIN...	1 row(s) returned	0.317 sec / 0.00034 s...
		10...	SELECT COUNT(DISTINCT c.country) AS total_paises FROM transaction t JOIN...	1 row(s) returned	0.232 sec / 0.000014...
		10...	SELECT c.company_name, AVG(t.amount) AS media_ventas FROM transaction...	1 row(s) returned	0.283 sec / 0.00039...
		10...	SELECT DATE(t.timestamp) AS fecha, SUM(t.amount) AS total_ventas FROM tr...	5 row(s) returned	0.120 sec / 0.00029 s...
		10...	SELECT c.country, AVG(t.amount) AS media_ventas FROM transaction t JOIN...	15 row(s) returned	0.256 sec / 0.000051...
		10...	SELECT t.* FROM transaction t JOIN company c ON t.company_id = c.id WHERE...	1000 row(s) returned	0.018 sec / 0.0093 sec
		10...	SELECT * FROM transaction WHERE company_id IN (SELECT id FROM co...	1000 row(s) returned	0.034 sec / 0.0087 sec
		10...	SELECT * FROM transaction WHERE company_id IN (SELECT id FROM co...	1000 row(s) returned	0.041 sec / 0.0083 sec
		10...	SELECT DISTINCT c.country FROM transaction t JOIN company c ON t.compa...	15 row(s) returned	0.195 sec / 0.00076 s...
		10...	SELECT COUNT(DISTINCT c.country) AS total_paises FROM transaction t JOI...	1 row(s) returned	0.174 sec / 0.000039...

Sergii_Korotun_Sprint_2(nivel1_2)

The screenshot shows the MySQL Workbench interface with the following details:

- Left Sidebar:** Administration, Schemas, MANAGEMENT (Server Status, Client Connections, Users and Privileges, Status and System Variables, Data Export, Data Import/Restore), INSTANCE (Startup / Shutdown, Server Logs, Options File), PERFORMANCE (Dashboard, Performance Reports, Performance Schema Setup).
- Central Area:** A query editor window titled "dades_introduir_sprint2*" containing the following SQL code:

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

The result grid shows a single row with the value "15".
- Right Panel:** Context Help, Result Grid, Form Editor, Field Types, Query Stats.
- Bottom Area:** Action Output table showing the execution history of the query:| Object Info | Session | Time | Action | Response | Duration / Fetch Time |
| --- | --- | --- | --- | --- | --- |
| schema: transactions | | 10... 10:59:42 | SELECT COUNT(DISTINCT c.country) AS total_paises FROM transaction t JOI... | 1 row(s) returned | 0.317 sec / 0.00034 s... |
| | | 10... 10:59:44 | SELECT COUNT(DISTINCT c.country) AS total_paises FROM transaction t JOI... | 1 row(s) returned | 0.232 sec / 0.000014... |
| | | 10... 11:02:27 | SELECT c.company_name, AVG(t.amount) AS media_ventas FROM transaction... | 1 row(s) returned | 0.283 sec / 0.00039... |
| | | 10... 11:19:24 | SELECT DATE(t.timestamp) AS fecha, SUM(t.amount) AS total_ventas FROM tr... | 5 row(s) returned | 0.120 sec / 0.00029 s... |
| | | 10... 11:22:28 | SELECT c.country, AVG(t.amount) AS media_ventas FROM transaction t JOIN... | 15 row(s) returned | 0.256 sec / 0.000051... |
| | | 10... 11:28:38 | SELECT t.* FROM transaction t JOIN company c ON t.company_id = c.id WHER... | 1000 row(s) returned | 0.018 sec / 0.0093 sec |
| | | 10... 11:49:42 | SELECT * FROM transaction WHERE company_id IN (SELECT id FROM co... | 1000 row(s) returned | 0.034 sec / 0.0087 sec |
| | | 10... 12:22:58 | SELECT * FROM transaction WHERE company_id IN (SELECT id FROM co... | 1000 row(s) returned | 0.041 sec / 0.0083 sec |
| | | 10... 12:58:05 | SELECT DISTINCT c.country FROM transaction t JOIN company c ON t.compa... | 15 row(s) returned | 0.195 sec / 0.00076 s... |
| | | 10... 12:59:54 | SELECT COUNT(DISTINCT c.country) AS total_paisos FROM transaction t JOI... | 1 row(s) returned | 0.174 sec / 0.000039... |

Sergii_Korotun_Sprint_2(nivel1_3)

The screenshot shows the MySQL Workbench interface with the following details:

- Left Sidebar:** Contains sections for Administration, Management, Maintenance, and Performance.
- Top Bar:** Shows the current schema as "dades_introduir_sprint2*", along with tabs for other schemas: "estructura dades", "SQL File 15*", "SQL File 16*", and "SQL File 17*".
- Query Editor:** Displays a SQL query to calculate average sales per company, ordered by average sales in descending order, with a limit of 1 row.
- Result Grid:** Shows the execution result for the query, displaying one row: "Ac Fermentum Incorporated" with an average sale value of "284.911333".
- Result Grid Options:** A sidebar on the right lists four options: Result Grid, Form Editor, Field Types, and Query Stats.
- Action Output:** A table at the bottom shows the history of actions taken in the session, including timestamp, action, response, and duration.

Action	Time	Response	Duration / Fetch Time
SELECT COUNT(DISTINCT c.country) AS total_paises FROM transaction t JOIN company c ON t.company_id = c.id WHERE t.declined = FALSE GROUP BY c.company_name ORDER BY mitjana_vendes DESC LIMIT 1;	10... 10:59:44	1 row(s) returned	0.232 sec / 0.000014...
SELECT c.company_name, AVG(t.amount) AS media_ventas FROM transaction t JOIN company c ON t.company_id = c.id WHERE t.declined = FALSE GROUP BY c.company_name ORDER BY mitjana_vendes DESC LIMIT 1;	10... 11:02:27	1 row(s) returned	0.283 sec / 0.00039...
SELECT DATE(t.timestamp) AS fecha, SUM(t.amount) AS total_ventas FROM transaction t JOIN company c ON t.company_id = c.id WHERE t.declined = FALSE GROUP BY fecha ORDER BY fecha DESC LIMIT 1;	10... 11:19:24	5 row(s) returned	0.120 sec / 0.00029 s...
SELECT c.country, AVG(t.amount) AS media_ventas FROM transaction t JOIN company c ON t.company_id = c.id WHERE t.declined = FALSE GROUP BY c.country ORDER BY media_ventas DESC LIMIT 1;	10... 11:22:28	15 row(s) returned	0.256 sec / 0.000051...
SELECT t.* FROM transaction t JOIN company c ON t.company_id = c.id WHERE t.declined = FALSE GROUP BY t.id ORDER BY t.id ASC;	10... 11:28:38	1000 row(s) returned	0.018 sec / 0.0093 sec
SELECT * FROM transaction WHERE company_id IN (SELECT id FROM company WHERE country = 'Spain') ORDER BY timestamp DESC LIMIT 1;	10... 11:49:42	1000 row(s) returned	0.034 sec / 0.0087 sec
SELECT * FROM transaction WHERE company_id IN (SELECT id FROM company WHERE country = 'Spain') ORDER BY timestamp DESC LIMIT 1;	10... 12:22:58	1000 row(s) returned	0.041 sec / 0.0083 sec
SELECT DISTINCT c.country FROM transaction t JOIN company c ON t.company_id = c.id WHERE t.declined = FALSE GROUP BY c.country ORDER BY c.country ASC;	10... 12:58:05	15 row(s) returned	0.195 sec / 0.00076 s...
SELECT COUNT(DISTINCT c.country) AS total_paises FROM transaction t JOIN company c ON t.company_id = c.id WHERE t.declined = FALSE GROUP BY c.country ORDER BY c.country ASC;	10... 12:59:54	1 row(s) returned	0.174 sec / 0.000039...
SELECT c.company_name, AVG(t.amount) AS mitjana_vendes FROM transaction t JOIN company c ON t.company_id = c.id WHERE t.declined = FALSE GROUP BY c.company_name ORDER BY mitjana_vendes DESC LIMIT 1;	10... 13:07:14	1 row(s) returned	0.216 sec / 0.00073 s...

Sergii_Korotun_Sprint_2(nivel2_1)

The screenshot shows a database interface with a dark theme. On the left, a sidebar lists database objects: sys, Tables, Views, Stored Procedures, Functions, and transactions (which is selected). The main area displays a SQL query and its execution results.

SQL Query:

```
1 *   SELECT DATE(t.timestamp) AS fecha, SUM(t.amount) AS total_ventas
2     FROM transaction t
3    WHERE t.declined = FALSE
4    GROUP BY DATE(t.timestamp)
5    ORDER BY total_ventas DESC
6    LIMIT 5;
```

Execution Results:

fecha	total_ventas
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

Action Output:

Time	Action	Response	Duration / Fetch Time
12:56:57	SELECT c.company_name AS Nombre, c.phone AS Telefono, c.country...	8 row(s) returned	0.066 sec / 0.00000...
13:01:20	SELECT c.company_name AS Nombre_Empresa, COUNT(t.id) AS Total_Tr...	100 row(s) returned	0.161 sec / 0.00073 s...
13:07:22	SELECT DATE(t.timestamp) AS fecha, SUM(t.amount) AS total_ventas FROM tr...	5 row(s) returned	0.114 sec / 0.00057 s...

Sergii_Korotun_Sprint_2(nivel2_2)

The screenshot shows the MySQL Workbench interface with the following details:

- Query Editor:** The main window displays a query in the "Query 1" tab:

```
1 • SELECT c.country, AVG(t.amount) AS media_ventas
2   FROM transaction t
3   JOIN company c ON t.company_id = c.id
4   WHERE t.declined = FALSE
5   GROUP BY c.country
6   ORDER BY media_ventas DESC;
```
- Result Grid:** Below the query, the results are shown in a grid format:

country	media_ventas
Austr...	265.535393
Unite...	264.419466
Belgium	260.971218
Germ...	260.829097
Ireland	260.388751
Spain	260.276923
France	259.905738
New...	259.585048
Norway	259.141783
Neth...	258.336546
Italy	258.123060
Canada	257.413501
Sweden	257.389783
Unite...	256.676036
China	252.599934
- Action Output:** Below the results, the execution history is listed:

Time	Action	Response	Duration / Fetch Time
12:56:57	SELECT c.company_name AS Nombre, c.phone AS Telefono, c.country...	8 row(s) returned	0.066 sec / 0.000000...
13:01:20	SELECT c.company_name AS Nombre_Empresa, COUNT(t.id) AS Total_Tr...	100 row(s) returned	0.161 sec / 0.00073 s...
13:07:22	SELECT DATE(t.timestamp) AS fecha, SUM(t.amount) AS total_ventas FROM tr...	5 row(s) returned	0.114 sec / 0.00057 s...
13:09:42	SELECT c.country, AVG(t.amount) AS media_ventas FROM transaction t JOIN...	15 row(s) returned	0.191 sec / 0.000026...

Sergii_Korotun_Sprint_2(nivel2_3)

The screenshot shows the MySQL Workbench interface with the following components:

- Left Panel (schemas):** Shows the database structure with the **transactions** schema selected.
- Query Editor:** Displays the following SQL query:

```
1 • SELECT *
  2   FROM transaction
  3   WHERE company_id IN (
  4     SELECT id
  5       FROM company
  6      WHERE country = (
  7        SELECT country FROM company WHERE company_name = 'Non Institute'
  8      )
  9    );
```
- Result Grid:** Shows the results of the query in a tabular format. The columns are: id, credit_card..., company_id, user_id, lat, longitude, timestamp, amount, declined. The data includes various transaction records with IDs like 01F075B1-D7AE-4D02-AAD9-5FFD72A43F3C, user IDs like b-2246, and amounts ranging from 103.73 to 461.34.
- Session History:** Shows the execution history of the query, listing each step with its time, action, response, and duration/fetch time.
- Toolbar:** Includes standard database management icons for creating tables, views, stored procedures, and functions.
- Help:** A context help panel on the right provides information about automatic context switching.

Sergii_Korotun_Sprint_2(nivel2_3JOIN)

The screenshot shows a database management interface with the following details:

- Toolbar:** Includes standard icons for file operations, zoom, and search.
- Left Sidebar:** Shows the schema tree under "Schemas". The "transactions" schema is selected, containing tables like "Tables", "Views", "Stored Procedures", and "Functions".
- Query Editor:** Displays a multi-line query:

```
1 • SELECT t.*  
2   FROM transaction t  
3   JOIN company c ON t.company_id = c.id  
4   WHERE c.country = (  
5       SELECT country FROM company WHERE company_name = 'Non Institute'  
6   );
```
- Result Grid:** Shows the results of the query as a table with columns: id, credit_card..., company_id, user_id, lat, longitude, timestamp, amount, declined. The table contains approximately 20 rows of transaction data.
- Right Sidebar:** A vertical panel with tabs: "Result Grid" (selected), "Form Editor", "Field Types", "Query Stats", and "Execution Plan".
- Bottom Panel:** Shows the execution plan with 6 steps and their details, such as time taken and row counts.

Sergii_Korotun_Sprint_2(nivel3_1)

The screenshot shows the MySQL Workbench interface with a dark theme. The left sidebar displays the 'Schemas' tree, where the 'transactions' schema is selected. The main area contains a SQL query editor with the following code:

```
5      DATE(t.timestamp) AS Fecha,
6      t.amount AS Amount
7  FROM
8      company c
9  JOIN
10     transaction t ON c.id = t.company_id
11 WHERE
12     t.amount BETWEEN 350 AND 400
13     AND DATE(t.timestamp) IN ('2015-04-29', '2018-07-20', '2024-03-13')
14 ORDER BY
15     t.amount DESC;
```

The results grid shows the following data:

	Nombre	Telefono	Pais	Fecha	Amount
1	Aliquam PC	01 45 73 52 16	Germany	2024-03-13	399.84
2	Auctor Mauris Vel LLP	08 09 28 74 14	United States	2018-07-20	399.51
3	At Pede Corp.	06 14 48 33 15	Italy	2015-04-29	390.69
4	Aliquam PC	01 45 73 52 16	Germany	2024-03-13	388.29
5	Orci Adipiscing Limited	03 18 00 77 81	United Kingdom	2018-07-20	373.71
6	Fringilla LLC	08 29 15 93 57	New Zealand	2015-04-29	367.62
7	Pede Cum Ltd	07 62 26 48 38	Norway	2018-07-20	356.87
8	Auctor Mauris Vel LLP	08 09 28 74 14	United States	2024-03-13	353.75

The bottom section shows the 'Action Output' tab with the following log entry:

Action	Time	Response	Duration / Fetch Time
SELECT c.company_name AS Nombre, c.phone AS Telefono, c.country...	12:56:57	8 row(s) returned	0.066 sec / 0.00000...

A context help panel on the right side provides information about automatic context help being disabled and how to enable it using the toolbar.

Sergii_Korotun_Sprint_2(nivel3_2)

The screenshot shows the MySQL Workbench interface with a dark theme. The left sidebar displays the schema 'MAS' with objects like sys, Tables, Views, Stored Procedures, Functions, and transactions selected. The main area contains a SQL editor with the following query:

```
SELECT
    c.company_name AS Nombre_Empresa,
    COUNT(t.id) AS Total_Transacciones,
    CASE
        WHEN COUNT(t.id) > 400 THEN 'Más de 400 transacciones'
        ELSE '400 o menos transacciones'
    END AS Categoria_Transacciones
FROM
    company c
LEFT JOIN
    transaction t ON c.id = t.company_id
```

The result grid shows 100 rows of data:

Nombre_Empresa	Total_Transaccion...	Categoría_Transacciones
Nunc interdum Incorporated	1500	Más de 400 transacciones
Donec Fringilla PC	1593	Más de 400 transacciones
Mauris Institute	1586	Más de 400 transacciones
Rutrum Non Inc.	1585	Más de 400 transacciones
Aliquet Vel Vulpitatem Incorporated	1583	Más de 400 transacciones
Aliquam PC	1576	Más de 400 transacciones
Orci Adipiscing Limited	1567	Más de 400 transacciones
Etiam Bibendum Fermentum Industries	1566	Más de 400 transacciones
Auctor Mauris Corp.	1564	Más de 400 transacciones
Mus Aenean Eget Foundation	1563	Más de 400 transacciones
Enim Condimentum Ltd	1550	Más de 400 transacciones
Justo Eu Arcu Ltd	1548	Más de 400 transacciones
At Pede Corp.	1544	Más de 400 transacciones
Non Institute	1543	Más de 400 transacciones
Interdum Feugiat Sed Associates	1542	Más de 400 transacciones
Netus Et Malesuada Ltd	1542	Más de 400 transacciones

The bottom section shows the 'Action Output' with two entries:

Time	Action	Response	Duration / Fetch Time
12:56:57	SELECT c.company_name AS Nombre, c.phone AS Telefono, c.country...	8 row(s) returned	0.066 sec / 0.00000...
13:01:20	SELECT c.company_name AS Nombre_Empresa, COUNT(t.id) AS Total_Tr...	100 row(s) returned	0.161 sec / 0.00073 s...