

```
Activities Terminal Apr 15 20:18 vboxuser@Ubuntu: -
vboxuser@Ubuntu:~$ docker exec -it 9fca47455df5 impala-shell
Starting Impala Shell without Kerberos authentication
Connected to Ubuntu.myquest.virtualbox.org:21000
Server version: impalad version 2.12.0-cdh5.15.1 RELEASE (build 64f4e19bf59fab8664ebff7e80fc70570dcd8cb8)
*****
Welcome to the Impala shell.
(Impala Shell v2.12.0-cdh5.15.1 (64f4e19) built on Thu Aug 9 09:21:02 PDT 2018)

To see live updates on a query's progress, run 'set LIVE SUMMARY=1;'.
*****
[Ubuntu.myquest.virtualbox.org:21000] > SHOW DATABASES;
Query: SHOW DATABASES
+-----+
| name | comment |
+-----+
| impala_builtins | System database for Impala builtin functions |
| default | Default Hive database |
+-----+
Fetched 2 row(s) in 0.01s
[Ubuntu.myquest.virtualbox.org:21000] > CREATE DATABASE sl3_impala;
Query: CREATE DATABASE sl3_impala
Fetched 0 row(s) in 0.04s
[Ubuntu.myquest.virtualbox.org:21000] > use sl3_impala;
Query: use sl3_impala
[Ubuntu.myquest.virtualbox.org:21000] > CREATE TABLE employees (
> id INT,
> name STRING,
> department STRING,
> salary DOUBLE
> )
> STORED AS PARQUET;
Query: CREATE TABLE employees (
id INT,
name STRING,
department STRING,
salary DOUBLE
)
```

```
Activities Terminal Apr 15 20:19 vboxuser@Ubuntu: -
name STRING,
department STRING,
salary DOUBLE
)
STORED AS PARQUET
Fetched 0 row(s) in 0.07s
[Ubuntu.myquest.virtualbox.org:21000] > INSERT INTO employees VALUES
> (1, 'Aarav', 'Engineering', 95000),
> (2, 'Priya', 'Marketing', 72000),
> (3, 'Rohan', 'Finance', 85000),
> (4, 'Saanvi', 'Engineering', 98000),
> (5, 'Karthik', 'Engineering', 87000),
> (6, 'Neha', 'Marketing', 74000);
Query: INSERT INTO employees VALUES
(1, 'Aarav', 'Engineering', 95000),
(2, 'Priya', 'Marketing', 72000),
(3, 'Rohan', 'Finance', 85000),
(4, 'Saanvi', 'Engineering', 98000),
(5, 'Karthik', 'Engineering', 87000),
(6, 'Neha', 'Marketing', 74000)
Query submitted at: 2025-04-15 14:48:53 (Coordinator: http://Ubuntu:25000)
Query progress can be monitored at: http://Ubuntu:25000/query_plan?query_id=ea42b4ef6d74a55f:9151fe2c00000000
Modified 6 row(s) in 5.05s
[Ubuntu.myquest.virtualbox.org:21000] > SELECT * FROM employees WHERE department = 'Engineering';
Query: SELECT * FROM employees WHERE department = 'Engineering'
Query submitted at: 2025-04-15 14:49:13 (Coordinator: http://Ubuntu:25000)
Query progress can be monitored at: http://Ubuntu:25000/query_plan?query_id=594c06f5b379964b:1548ad0300000000
+-----+
| id | name | department | salary |
+-----+
| 1 | Aarav | Engineering | 95000 |
| 4 | Saanvi | Engineering | 98000 |
| 5 | Karthik | Engineering | 87000 |
+-----+
Fetched 3 row(s) in 0.12s
[Ubuntu.myquest.virtualbox.org:21000] >
```

```
Activities Terminal Apr 15 20:21 vboxuser@Ubuntu: -
[Ubuntu.myquest.virtualbox.org:21000] > SELECT * FROM employees WHERE salary > 90000;
Query: SELECT * FROM employees WHERE salary > 90000
Query submitted at: 2025-04-15 14:50:30 (Coordinator: http://Ubuntu:25000)
Query progress can be monitored at: http://Ubuntu:25000/query_plan?query_id=524e9f1bd0b93c4a:4ace82d600000000
+-----+
| id | name | department | salary |
+-----+
| 1 | Aarav | Engineering | 95000 |
| 4 | Saanvi | Engineering | 98000 |
+-----+
Fetched 2 row(s) in 0.12s
[Ubuntu.myquest.virtualbox.org:21000] > SELECT department, AVG(salary) AS avg_salary
> FROM employees
> GROUP BY department;
Query: SELECT department, AVG(salary) AS avg_salary
FROM employees
GROUP BY department
Query submitted at: 2025-04-15 14:50:37 (Coordinator: http://Ubuntu:25000)
Query progress can be monitored at: http://Ubuntu:25000/query_plan?query_id=75486b4963c68e71:7822aacc00000000
+-----+
| department | avg_salary |
+-----+
| Marketing | 73000 |
| Finance | 85000 |
| Engineering | 93333.33333333333 |
+-----+
Fetched 3 row(s) in 0.22s
[Ubuntu.myquest.virtualbox.org:21000] > SELECT * FROM employees
> ORDER BY salary DESC
> LIMIT 3;
Query: SELECT * FROM employees
ORDER BY salary DESC
LIMIT 3
Query submitted at: 2025-04-15 14:50:43 (Coordinator: http://Ubuntu:25000)
Query progress can be monitored at: http://Ubuntu:25000/query_plan?query_id=b64bbcc0f2359fdf:8b8202f300000000
+-----+
```

```
Activities Terminal Apr 15 20:23 vboxuser@Ubuntu: ~
[Ubuntu.myquest.virtualbox.org:21000] > SELECT * FROM employees
> ORDER BY salary DESC
> LIMIT 3;

Query: SELECT * FROM employees
ORDER BY salary DESC
LIMIT 3
Query submitted at: 2025-04-15 14:50:43 (Coordinator: http://Ubuntu:25000)
Query progress can be monitored at: http://Ubuntu:25000/query_plan?query_id=b64bbcc0f2359fdf:8b8202f300000000

+-----+-----+-----+-----+
| id | name | department | salary |
+-----+-----+-----+-----+
| 4 | Saanvi | Engineering | 98000 |
| 1 | Aarav | Engineering | 95000 |
| 5 | Karthik | Engineering | 87000 |
+-----+-----+-----+-----+

Fetched 3 row(s) in 0.22s
[Ubuntu.myquest.virtualbox.org:21000] > SELECT e.name, e.department, e.salary
> FROM employees e
> JOIN (
> SELECT department, AVG(salary) AS avg_salary
> FROM employees
> GROUP BY department
> ) dept_avg
> ON e.department = dept_avg.department
> WHERE e.salary < dept_avg.avg_salary;

Query: SELECT e.name, e.department, e.salary
FROM employees e
JOIN (
SELECT department, AVG(salary) AS avg_salary
FROM employees
GROUP BY department
) dept_avg
ON e.department = dept_avg.department
WHERE e.salary < dept_avg.avg_salary
Query submitted at: 2025-04-15 14:52:30 (Coordinator: http://Ubuntu:25000)
Query progress can be monitored at: http://Ubuntu:25000/query_plan?query_id=5f4b3e4a562650f9:8e1776bb00000000
```

```
Activities Terminal Apr 15 20:23 vboxuser@Ubuntu: ~
+-----+-----+-----+-----+
| id | name | department | salary |
+-----+-----+-----+-----+
| 4 | Saanvi | Engineering | 98000 |
| 1 | Aarav | Engineering | 95000 |
| 5 | Karthik | Engineering | 87000 |
+-----+-----+-----+-----+

Fetched 3 row(s) in 0.22s
[Ubuntu.myquest.virtualbox.org:21000] > SELECT e.name, e.department, e.salary
> FROM employees e
> JOIN (
> SELECT department, AVG(salary) AS avg_salary
> FROM employees
> GROUP BY department
> ) dept_avg
> ON e.department = dept_avg.department
> WHERE e.salary < dept_avg.avg_salary;

Query: SELECT e.name, e.department, e.salary
FROM employees e
JOIN (
SELECT department, AVG(salary) AS avg_salary
FROM employees
GROUP BY department
) dept_avg
ON e.department = dept_avg.department
WHERE e.salary < dept_avg.avg_salary
Query submitted at: 2025-04-15 14:52:30 (Coordinator: http://Ubuntu:25000)
Query progress can be monitored at: http://Ubuntu:25000/query_plan?query_id=5f4b3e4a562650f9:8e1776bb00000000

+-----+-----+-----+
| name | department | salary |
+-----+-----+-----+
| Priya | Marketing | 72000 |
| Karthik | Engineering | 87000 |
+-----+-----+-----+

Fetched 2 row(s) in 0.47s
[Ubuntu.myquest.virtualbox.org:21000] >
```