# Use Case UC-001

Version 1.0

## Revision History

| Date | Author | Description of change |
| --- | --- | --- |
| 2023/10/11 | Jacob Rawlings | Created UC-001 |
| 2024/01/17 | Alan A., Jake F. | Updated for 471 |
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**Use Case:** Extracting data from the database

**Id**: UC-001

**Description**

A data analyst accesses the database through IONOS and executes a SELECT query on it to retrieve relevant data.

**Level:** User Goal

**Primary Actor**

Data Analyst

**Supporting Actors**

Database server

Database administrator

**Stakeholders and Interests**

Data analyst: Interested in retrieving relevant data for analysis.

Database administrator: Interested in ensuring data security and proper system access.

**Pre-Conditions**

Data analysts must have valid IONOS login credentials.

Data analysts must have been granted permission to access the database by the database administrator.

**Post Conditions**

Success end condition

The requested data has been successfully retrieved by the analyst.

Failure end condition:

The request fails if data cannot be retrieved due to system errors or unauthorized access.

Minimal Guarantee

The system guarantees that data security procedures are adhered to regardless of end condition.

**Trigger**

The data analyst wants to retrieve data for analysis.

## Main Success Scenario

1. The data analyst logs into the IONOS server
2. Credentials and permissions are verified by system
3. Data analyst accesses the database with PhpMyAdmin
4. Data analyst executes a SELECT query on relevant tables
5. The system processes the request and provides relevant data to the data analyst
6. The system logs the transaction
7. Data analyst can now view the retrieved data

## Extensions

3a. User lacks permissions to request data, error message is returned

**Frequency:** As needed

**Assumptions**

Data analyst possesses valid login credentials.

The system is operating as intended.

The analyst understands how to use the IONOS interface.

## Special Requirements

**Performance**

The data (or failure message) should be retrieved within 10 seconds.

**Security**

Login passwords will be censored.

Data will only be accessible by users with valid permissions.