



# dbeaver

- Free SQL GUI
- <https://dbeaver.io>
- <https://github.com/dbeaver/dbeaver>
- Based on Eclipse
  - standalone or Eclipse plugin

# SSH tunnel to DB machine

- Works from on or off campus!
- Do the following in a terminal window.

```
ssh -L 3306:64.59.233.245:3306 PUNETID@zeus.cs.pacificu.edu
```

- Other options:
  - N Do not execute a remote command.
  - f Go to background
  - L Use local client. Must be last
- Works on Linux, MacOS, Windows 10

# ssh tunnel

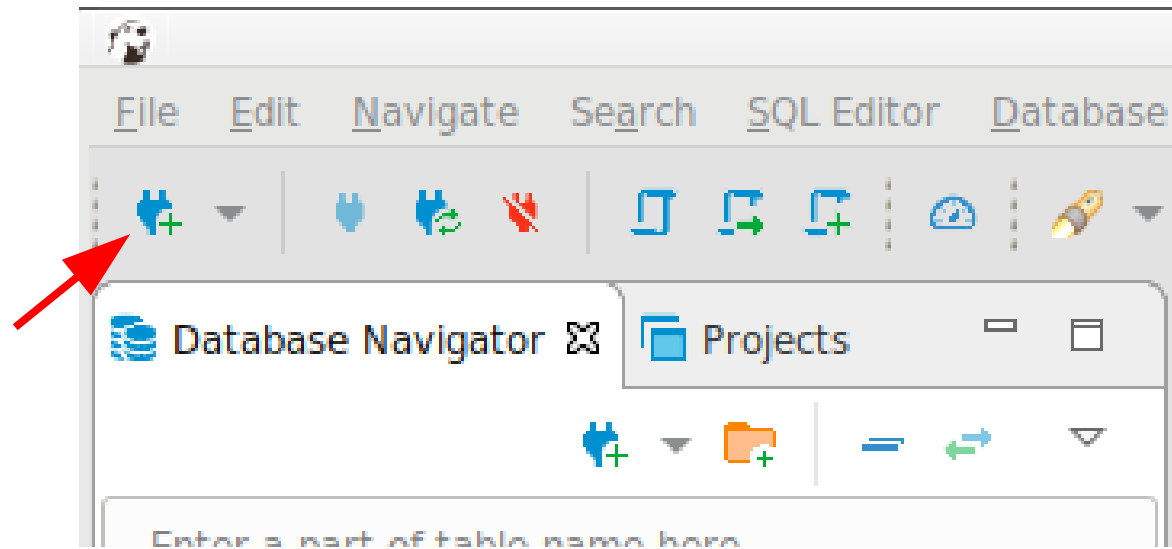
```
ssh -L 3306:64.59.233.245:3306 chadd@zeus.cs.pacificu.edu
```

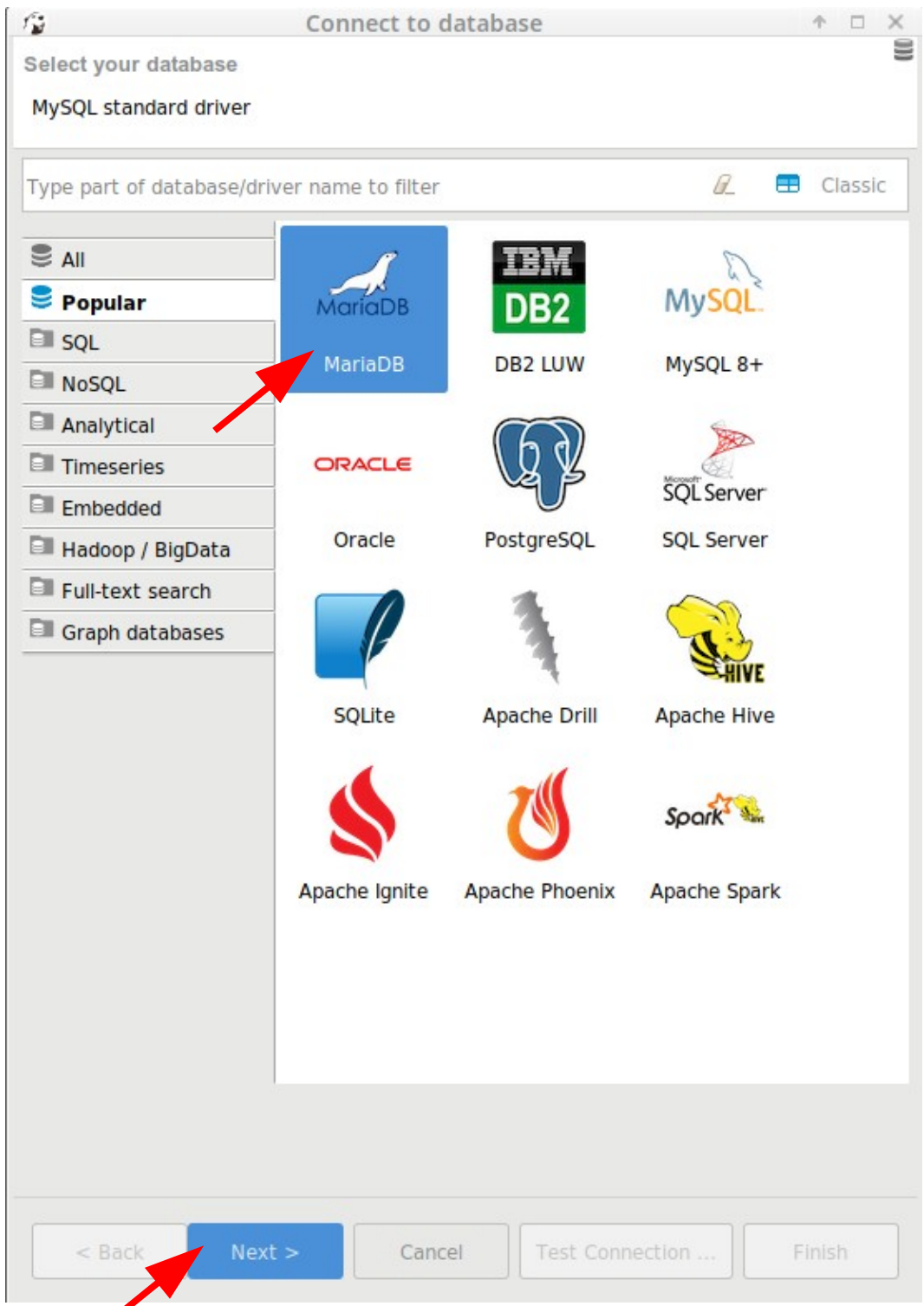
localhost

target machine (database behind a firewall)

gateway/bridge

# dbeaver SQL editor: connect






Connect to database

Connection Settings

MariaDB connection settings



**General** Driver properties SSH Proxy SSL

Server Host: localhost

Port: 3306

Database:

User name: chadd

Password:   Save password locally

Server Time Zone: Auto-detect

Local Client: /usr

Advanced settings:

Connection details (name, type, ... )

Driver name: MariaDB

< Back Next > Cancel Test Connection ... Finish



General

General connection settings.

▼ Connection settings

Initialization

Shell Commands

Client identification

General

Metadata

Error handle

▼ Result Sets

Editors

Data Formatting

Presentation

▼ SQL Editor

SQL Processing

Connection name:

DatabaseMachine

Connection type:

Development



Edit

Connection folder:

<None>

Description:

Miscellaneous

- Show system objects
- Show utility objects

Security

- Read-only connection
- Edit permissions ...

Filters

- [Catalogs \(Not Supported\)](#)
- [Schemas / Users](#)
- [Tables](#)
- [Columns](#)

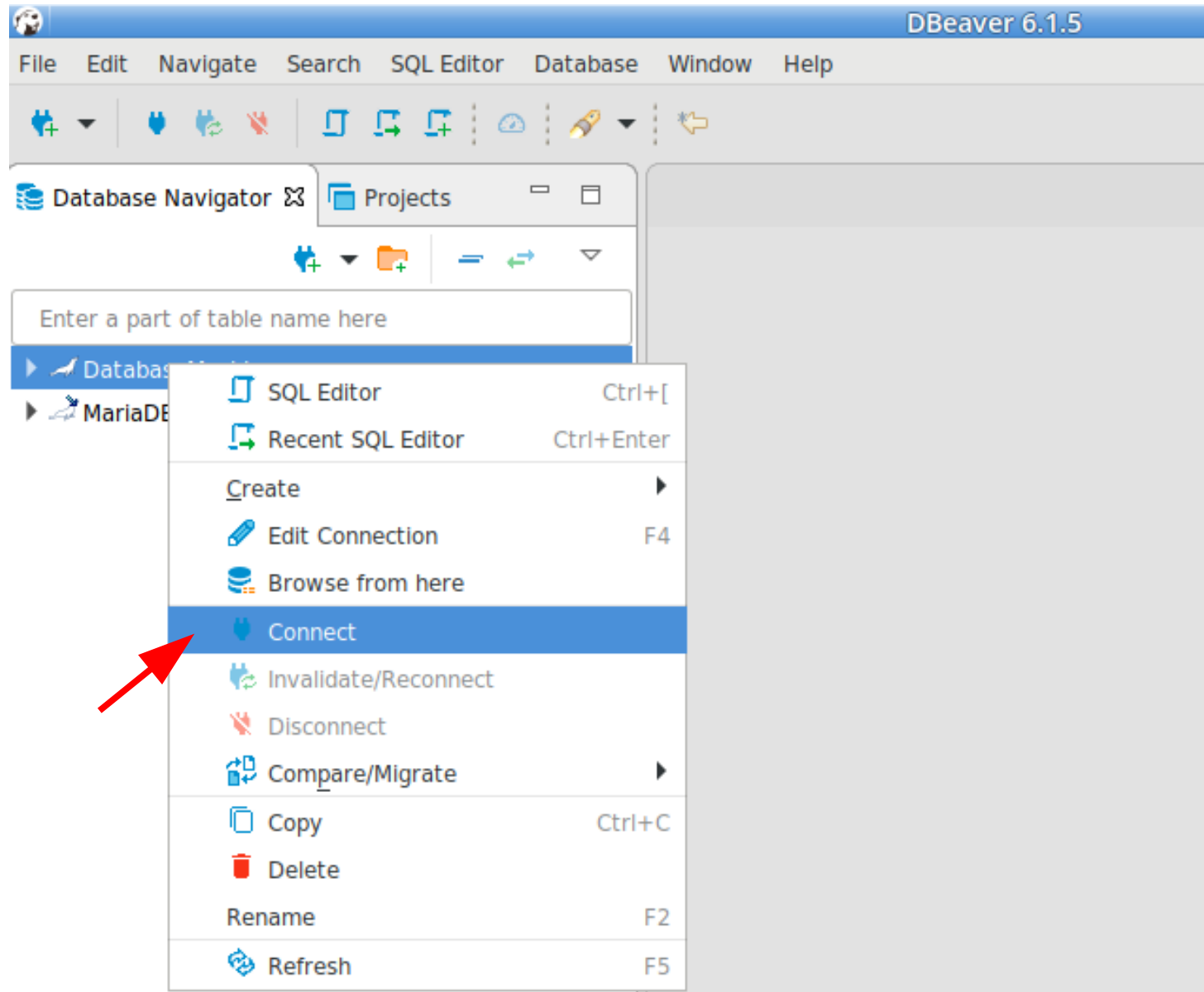
[Connection initialization settings](#)

[Shell Commands](#)

Cancel

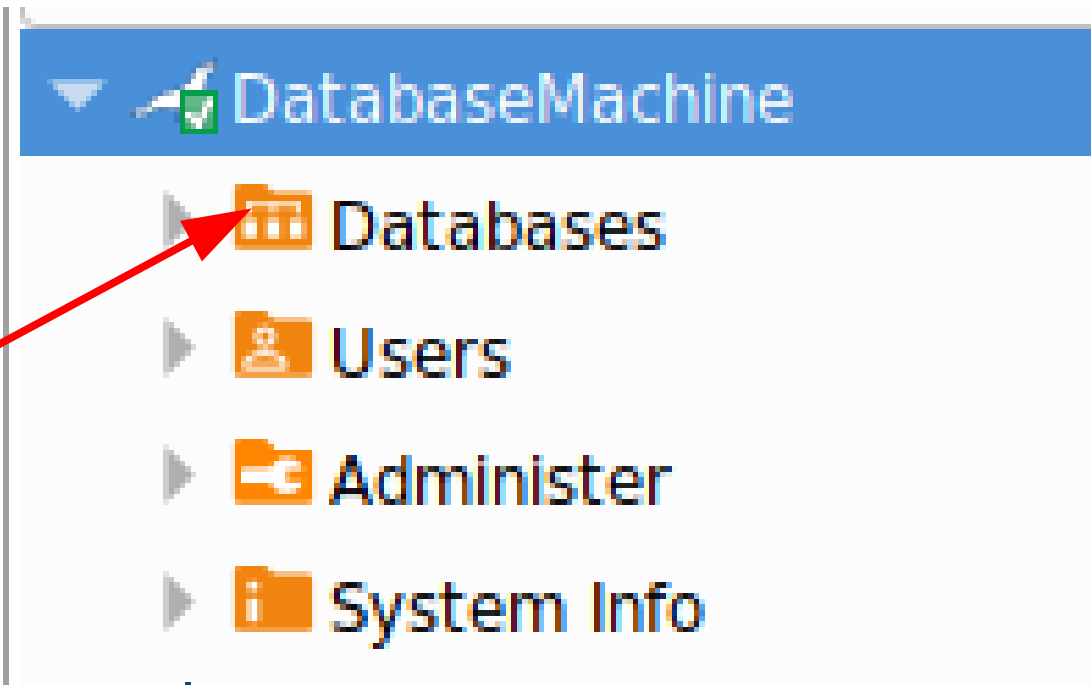
Test Connection ...

OK

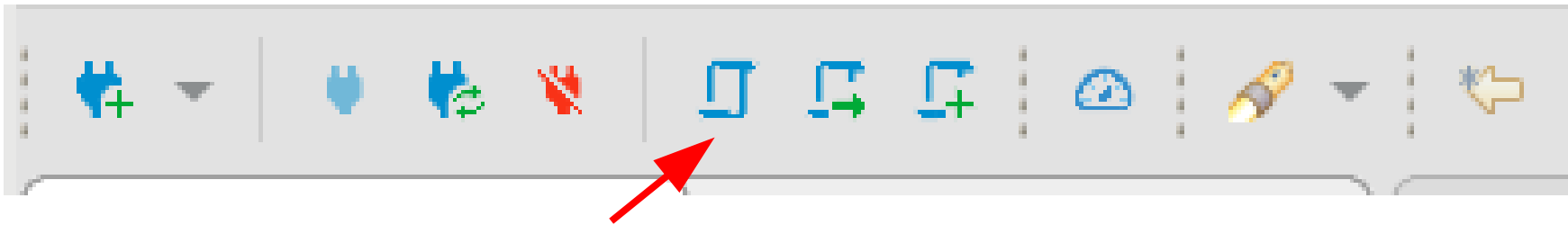


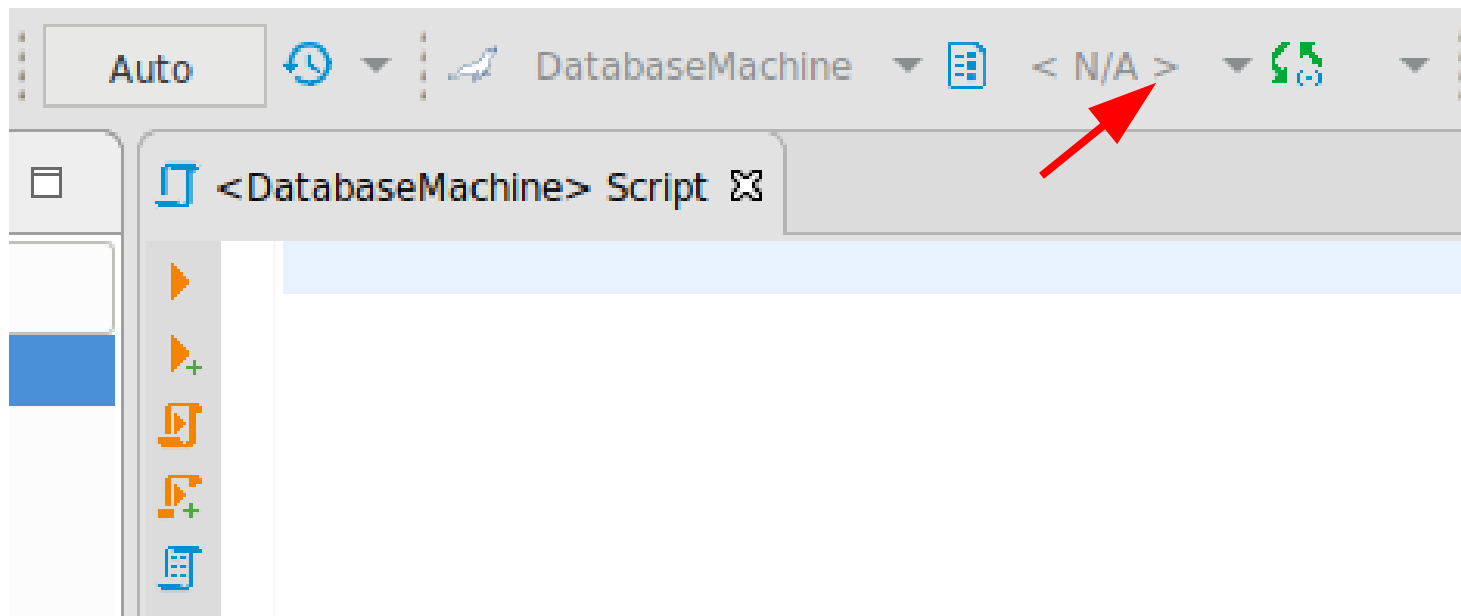
Give you database password!



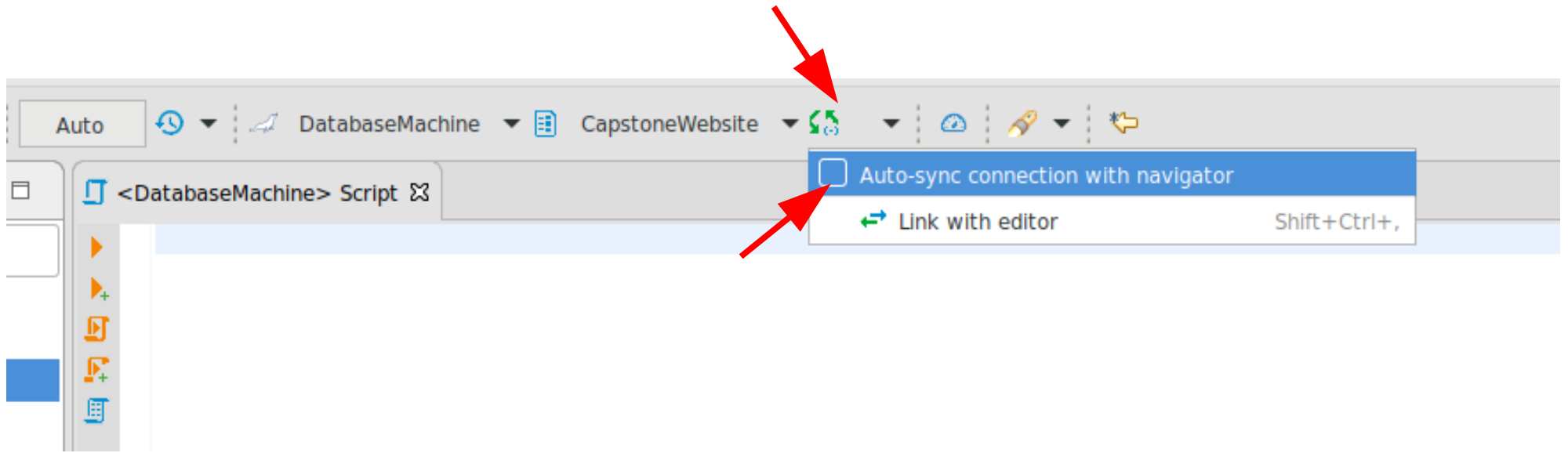


## Sql Editor





Choose the database.



Execute one statement

Execute entire script

The screenshot shows a database client interface. At the top, a tab labeled '\*<DatabaseMachine> Script' contains a SQL query: `SELECT * FROM majorInfo;`. Below the script editor is a toolbar with several icons. Two red arrows point from the text labels on the left to the 'Execute one statement' (a single yellow triangle) and 'Execute entire script' (a yellow triangle with a plus sign) icons in the toolbar. Below the toolbar, a tab labeled 'majorInfo' is active, showing a table with the following data:

Grid	majorID	majorName
1	1	Art
2	2	Anthropology
3	3	Bioinformatics
4	4	Biology
5	5	Chemistry
6	6	Computer Science