



Aalto University
School of Business

Power BI Tutorials: Importing data

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Objects of the video

We will explain:

1. How to import different sources into Power BI

- Excel/csv file (local data file, often used by small enterprises)
- MySQL database (often used by small and medium size enterprises)
- Json file (an increasingly popularly used data format for data scientists)

2. Custom data in Power BI

- Remove variables
- Rename variables
- Create new variables

3. Build connections between tables

MySQL database connection (VDI)

Please note that you can only access the database below **via Aalto VDI**, because this MySQL server is offered by the university and is not open to external network.

IP: kennedy.org.aalto.fi

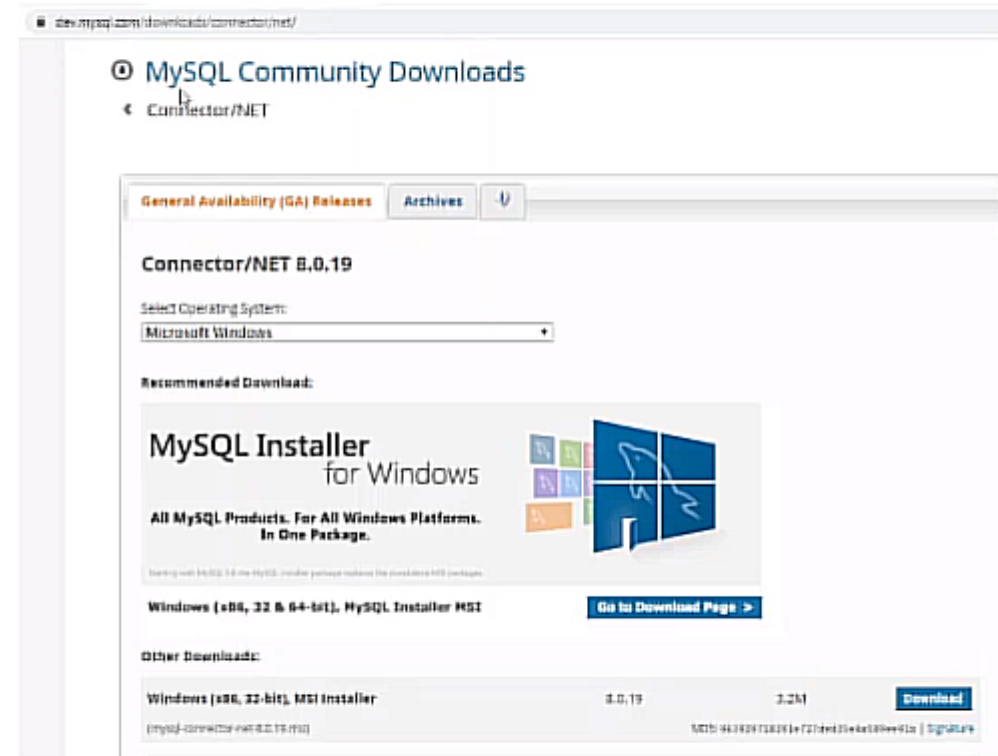
User: 555555

Database: d555555

Password: P555555

MySQL database connector

If using Power BI to connect to your local MySQL server, you will need to install a MySQL connector.



Json

```
Sample json file - Expense.json - Notepad
File Edit Format View Help
[
  {
    "WHO": "Joe",
    "WEEK": [
      {
        "NUMBER": 3,
        "EXPENSE": [
          {
            "WHAT": "Beer",
            "AMOUNT": 18.00
          },
          {
            "WHAT": "Food",
            "AMOUNT": 12.00
          },
          {
            "WHAT": "Food",
            "AMOUNT": 19.00
          },
          {
            "WHAT": "Car",
            "AMOUNT": 20.00
          }
        ]
      },
      {
        "NUMBER": 4,
        "EXPENSE": [
          {
            "WHAT": "Beer",
            "AMOUNT": 19.00
          }
        ]
      }
    ]
  }
]
```

JSON is an open standard file format, and data interchange format, that uses human-readable text to store and transmit data objects consisting of attribute–value pairs and array data types. It is a very common data format, with a diverse range of applications, such as serving as a replacement for XML in AJAX systems. - wikipedia



Json files like Matryoshka

Data tables to be imported

1. **'Payments' table – a csv file/a excel file**
 2. **'customers' table – from MySQL database**
 3. **'orders' table – from MySQL database**
 4. **'products' table – from MySQL database**
 5. **'Sample json file - Expense'.json**
- 'customers', 'orders' and 'products' tables are also available as CSV files in MyCourses.
 - The database file (.sql) is also available at MyCourse.

Please install Power BI desktop at this link: <https://powerbi.microsoft.com/en-us/downloads/>