Spreadsheet Basics

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- Basic Words + Rows (L/R) + Columns (U/D)
- + Cells

Attribute

- + characteristic or quality
- + to label a column in a table

Observation

- + all attributes for sth in a row of a data table + Row 1 is an observation of Patrick Witczak + bc we see his attributes in this row

Formula

- + set of instructions + perform specific action
- + using data in spreadsheet

Insert -> Chart

- + creates a chart out of spreadsheet :o
- + many customisations available

End

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SQL Basics

Montag, 30. Juni 2025 22:13

SQL Basics

- + no matter which database we use
- + SQL works usually the same

- + request for data or information from a database
- + here used Big Query (Chapter 3)

First Command SELECT * FROM movie_data.movies WHERE Genre__1_ = 'Action'
WHERE = filter

a lot of movies appear appeared

Basic structure of a SQL query

```
#1
WHERE
[a certain condition is met]
```

Syntax

- + a unique set of guidelines
- + includes required words, symbols, punctations
- + and a proper placement

First Query

```
Example of a query
```

The above query uses three commands to locate customers with the first name, 'Tony':

- 1. SELECT the column named first_name
- FROM a table named customer_name (in a dataset named customer_data) (The dataset name is always followed by a dot, and then the table name.)
- 3. But only return the data WHERE the first_name is 'Tony'

Multiple Columns in a query

```
Notice that unlike the SELECT command that uses a comma to separate fields / variables / parameters, the IRIE command uses the IRIE statement to connect conditions. As you become a more advanced writer of queries, you will make use of other connectors / operators such as OR and NOT.
```

"and" must be used by multiple WHERE "," is used by multiple SELECT Multiple FROM did not appear so far

Try to use semicolons at the end

- SELECT field1
- FROM table
- WHERE field1 = condition;

Where Conditions

- + WHERE can help me by putting many criteria
- + one good one is also by choosing rows + example field 1 = 1 "Chavez" (last name)

"LIKE" - clause

- + where field 1 must not be identical
- + field 1 LIKE Ch (search for all names with Ch)

Select *

+ simply select all columns in the table

How To Do Comments

- + use /* and */
- + use -- (best practice)

```
1 V SELECT
2 | field1 /* this is the last name column */
3 V FROM
4 | table — this is the customer data table
5 V MMERE
6 | field1 LIKE 'Chw';
```

```
1 — This is an important query used later to join with the account of the control of the control
```

```
    Pull basic information from the customer table

SELECT
    customer_id, --main ID used to join with customer_address;
    first_mame, --customer's first name from loyalty program
    last_mame --customer's last name
```

- Aliases
 + give the things you use more convenient names
 + without actually changing the names

```
SELECT

my_table_alias.actual_column_name AS my_column_alias
FROM

actual_table_name AS my_table_alias
```

Real Life Example

A portion of the resulting data returned from the SQL query might look like this

empID	firstName	lastName	jobCode	salary	
0002	Homer	Simpson	SFI	15000	
0003	Marge	Simpson	SFI	30000	
0034	Bart	Simpson	SFI	25000	
0067	Lisa	Simpson	SFI	38000	
0088	Ned	Flanders	SFI	42000	
0076	Barney	Gumble	SFI	32000	

But we only want full time workers

empID	firstName	lastName	jobCode	salary
0002	Homer	Simpson	SFI	15000
0003	Marge	Simpson	SFI	30000
0034	Bart	Simpson	SFI	25000
0108	Edna	Krabappel	TUL	18000
0099	Moe	Szyslak	ANA	28000

Data Visualisation Basics

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Introduction - Data Visualisation

- + Tableau and RStudio are more powerful than Spreadsheet

- + when you work with R, you'll usually use RStudio
 + there are really crazy visualisations
 + there's a lot you can do to build up skills with that
- + don't just see them as facts + see them as pictures
- + pictures tell stories









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Glossary						
Mittwoch, 2. Juli 2025	16:36					

Terms and definitions for Course 1, Module 3

Attribute: A characteristic or quality of data used to label a column in a table

Observation: The attributes that describe a piece of data contained in a row of a table

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