



How to train the student's data mindset **#EJTA21**

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Young woman robbed

The 22 year old woman was walking on Övre Husargatan in the centre of Gothenburg on Tuesday morning, when she was robbed by a young man, dressed in black, threatening her with something that looked like a knife. He took her wallet, mobile phone and necklace.

This news item helps students understand structured data.

The students works in groups of two or three.

Data = pieces of information



***Machines
need
structure***



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1. Mark the pieces of information in this text



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2. If the purpose is to have an overview of robberies in Gothenburg, about victims, offenders, time and place, what pieces of information is relevant to select?



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How do you transform the data in the text to machine-readable data?

- Structure
- Rows and columns
- One variable at a time



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Case no	Header	Header	Header	Header	Header	Header	Header

- a) Take a spreadsheet and structure the pieces of information
- b) Write down proper headers of each column



4. Now, try to add THIS news item to your table.

...you may need to change some headers for both items to fit...

Man robbed at Linnéplatsen

A stolen mobile phone and a black eye was the result when a man in the lower twenties was robbed at 4 am Tuesday morning. The robbery took place at Linnéplatsen in Gothenburg. The police is looking for two men, dressed in dark clothes



5. Present your tables

4. Now, try to add this news item to your table.

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Case	Day	Time	Place	Victim_ sex	Victim_ age	Things_ robbed	Physical_ injuries	Several_ robbers ?	Robber_ sex	Robber_ weapons
1	Tues day	Mornin g	Övre Husar- gatan	F	22	Mobile phone, wallet, necklace	No data	No	M	Knife
2	Tues day	4 AM	Linné- platsen	M	Early twenties	Mobile phone	Black eye	Yes	M	No data

There is no perfect data
Always pro

What time in the morning?

How to count most frequently robbed object?

If they are a mixed gang?

Case	Day	Time	Place	Victim_ sex	Victim_ age	Things_ robbed	Physical_ injuries	Several_ robbers ?	Robber_ sex	Robber_ _weapons
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2	Tues day	4 AM	Linné- platsen	M	Early twenties	Mobile phone	Black eye	Yes	M	No data

What Tuesday?

The street is long...

How calculate average age?

How many?

Missing data

6. Make a new version

Case	Day	Time	Place	Geolocation	Victim sex	Victim_age	Mobile phone	Wallet	Jewelry	Other	Physical_injuries	No of robbers	Robber_weapons
1	May 18 2021	4AM-9AM	Övre Husar-gatan	57.692356847784986, 11.955477787756996	F	20-30	1	1	1	0	No data	1	Stabbing weapons
2	May 18 2021	4AM-9AM	Linnéplatsen	57.69011474435299, 11.952312810083155	M	20-30	1	0	0	0	Face	2	No data

Find the date

Categorize when higher data types can't be used

Add data you need

One piece of information in each cell.

Case	Day	Time	Place	Longitude	Latitude	Number of robbers	Number of victims	Physical injuries	No of robbers	Robber_weapons
1	May 18 2021	4AM-9AM	Övre Husargatan	57.65011	11.95547	1	0	No data	1	Stabbing weapons
2	May 18 2021	4AM-9AM	Linnéplatsen	57.69011	11.95547	0	0	Face	2	No data

**You have built a database!
Well done!**



7. Imagine gathering all cases of robbery during one year in Gothenburg in your database.

Write down three headlines possible to make, analyzing the data in your database.

Example: "[...] of the victims of robbery are female



UNIVERSITY OF
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THANK YOU FOR LISTENING
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