

Practical 1

Before Class	Concepts	Intro to Data Visualisation
<u>During Class</u>	Hands-on	Intro to Data Visualisation + Integration + Tableau Cardinality - Join - Relationship
After Class	Hands-on	Revise today's class with LMS: Apr/Oct — Week X () Do "What is IDL" on LMS Go through Additional Resources slides - Read Extra Resources on Exploratory vs Explanatory - Read website on cardinality Lab Q2 - Do "Harry Potter — Which Join should I use?" quiz



Exploratory vs Explanatory: Takeaways

https://policyviz.com/2021/03/09/a-schematic-of-data-visualization-type-and-purpose/

→ Extra Resource on Exploratory vs Explanatory / Static vs Interactive





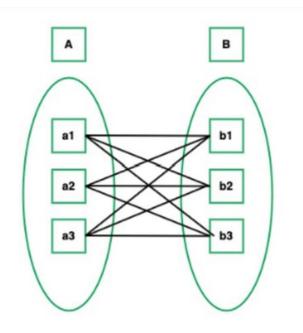
Cardinality

P01a Intro to DV: Read this website + Tell us what your

takeaway

Q2. In database management, cardinality plays an important role. Read this website to see how cardinality affects the way we integrate data tables. Write down your takeaways.

https://www.geeksforgeeks.org/cardinality-in-dbms/



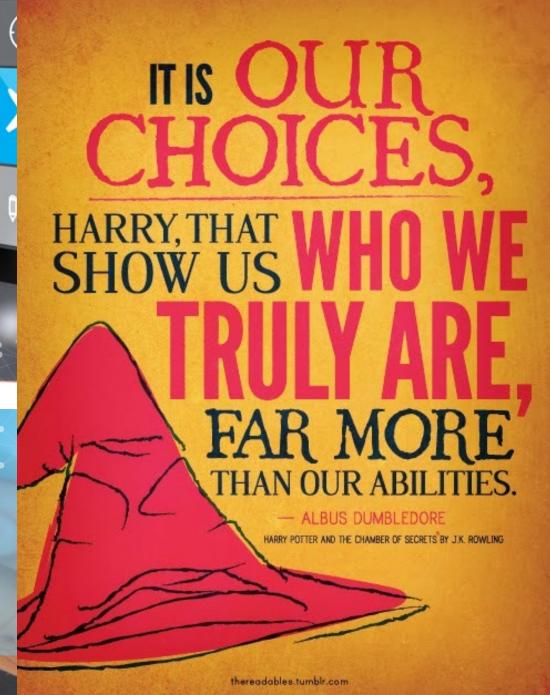




School of Informatics & IT

<u>Reference</u>

https://towardsdatascience.com/what-isthe-difference-between-an-inner-and-anouter-join-in-sql-5b5ec8277377





Charms Class

Student Name	Charms Grade
Harry	С
Ron	D
Hermione	Α
Luna	В
Neville	В

Potions Class

Student Name	Potions Grade
Harry	А
Ron	С
Hermione	В
Ginny	Α
Draco	D



A. Inner Join

B. Left Join

C. Right Join

D. Full Outer Join

Situation 1

Imagine that a dragon threatens Hogwarts castle. Only the students who are enrolled in both potions class and charms class are allowed to go out with the teachers to defend the school.



Charms Class

Student Name	Charms Grade
Harry	С
Ron	D
Hermione	A
Luna	В
Neville	В

Potions Class

Student Name	Potions Grade
Harry	А
Ron	С
Hermione	В
Ginny	Α
Draco	D



- A. Inner Join
- B. Left Join
- C. Right Join
- D. Full Outer Join

Situation 2

The Ministry of Magic only hires graduates who have completed both charms class and potions class. However there are not enough students with the required pre-requisites to fill all the roles, so the Ministry of Magic wants a list of students to speak with who are already enrolled in one class.



Charms Class

Student Name	Charms Grade
Harry	С
Ron	D
Hermione	Α
Luna	В
Neville	В

Potions Class

Student Name	Potions Grade
Harry	А
Ron	С
Hermione	В
Ginny	Α
Draco	D



- A. Inner Join
- B. Left Join
- C. Right Join
- D. Full Outer Join

Situation 3

There has been a prank pulled in the headmaster's office and all of Professor Dumbledore's furniture is floating on the ceiling. Students who take charms class and got a C grade or higher are under suspicion. However, students who are enrolled in potions class could not have been the culprits because their class was on a field trip at the time of the prank.



Charms Class

Student Name	Charms Grade
Harry	С
Ron	D
Hermione	Α
Luna	В
Neville	В

Potions Class

Student Name	Potions Grade
Harry	Α
Ron	С
Hermione	В
Ginny	Α
Draco	D



- A. Inner Join
- B. Left Join
- C. Right Join
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Situation 4

Professor Snape runs a potions club that meets at the same time as the charms class. Only students who are enrolled in potions class but not enrolled in charms class will be available to attend the club.





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