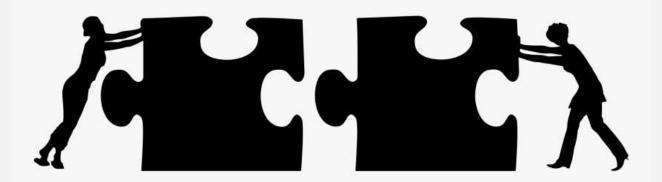
TOPICS IN JOIN

- · WHAT IS JOIN?
- USE OF JOIN
- JOIN TYPES
- · WHICH JOIN TO USE
- JOIN SYNTAX
- EXAMPLES IN SQL

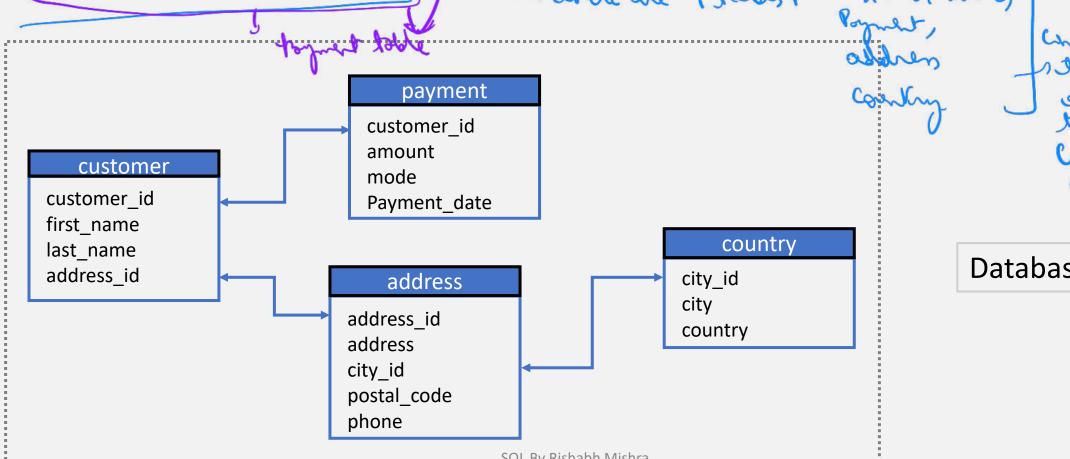
SQL JOIN

- JOIN means to combine something.
- A **JOIN** clause is used to combine data from two or more tables, based on a related column between them
- Let's understand the joins through an example:



JOIN Example

Question: How much amount was paid by customer 'Madan' what was mode and payment date? Here there are 4 table + Customer bobbe,



Database

JOIN Example



customer_id [PK] bigint	first_name character varying (50)	character varying (50)	address_id bigint
1	Mary	Smith	5
2	Madan	Mohan	6
3	Linda	Williams	7
4	Barbara	Jones	8
5	Elizabeth	Brown	9

customer_id [PK] bigint	amount bigint	mode character varying (50)	payment date date
1	60	Cash	2020-09-24
2	30	Credit Card	2020-04-27
3	90	Credit Card	2020-07-07
4	50	Debit Crad	2020-02-12
5	40	Mobile Payment	2020-11-20

Question: How much amount was paid by customer 'Madan', what was mode and payment date?

Answer: Amount = 30,

Mode = Credit Card,

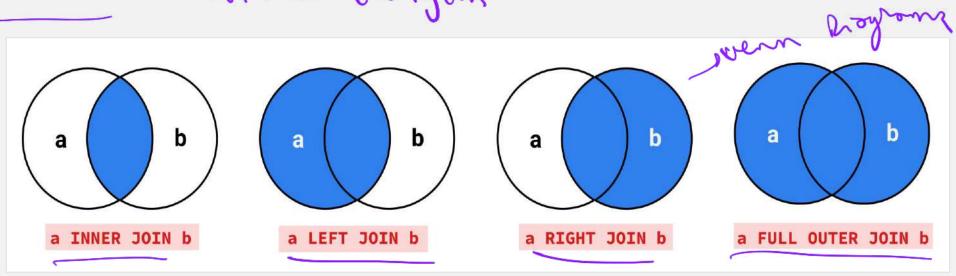
Date = 2020-04-27

Let the hold, ce so do in through customer - id56

TYPES OF JOINS

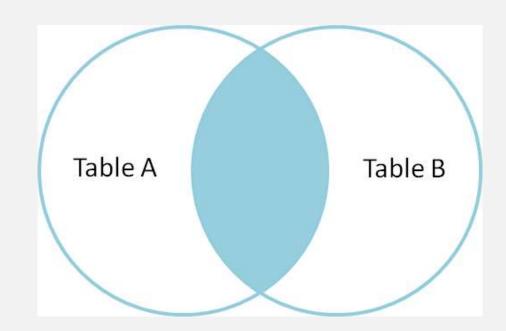
- INNER JOIN
- LEFT JOIN
- RIGHT JOIN
- FULL JOIN

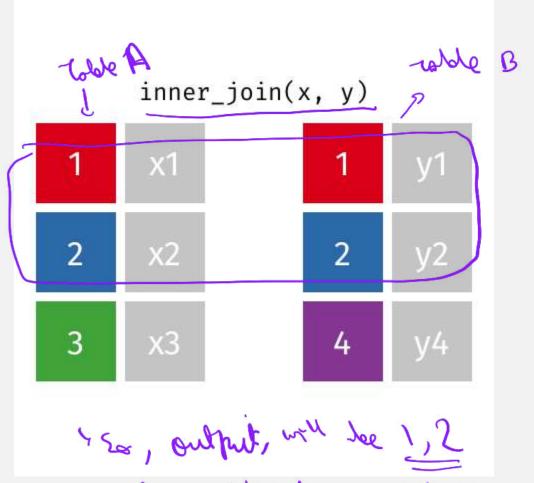
or light outer Join on Full outer join



MNER JOIN , bety of you common volvey in both the talely

 Returns records that have matching values in both tables

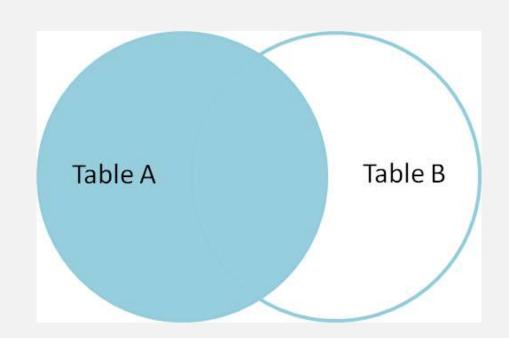


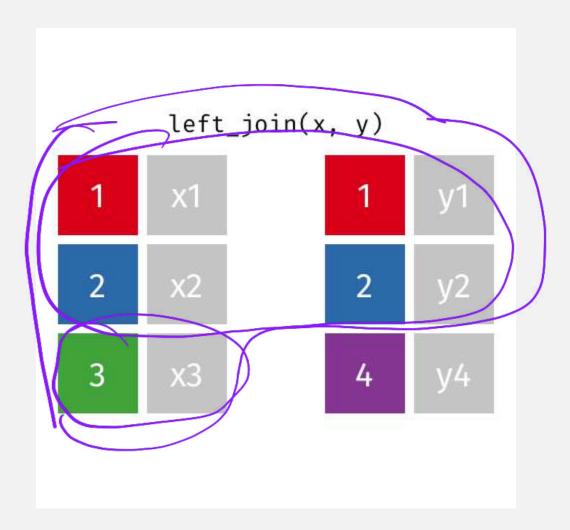


Croce, it is their in both the

LEFT JOIN

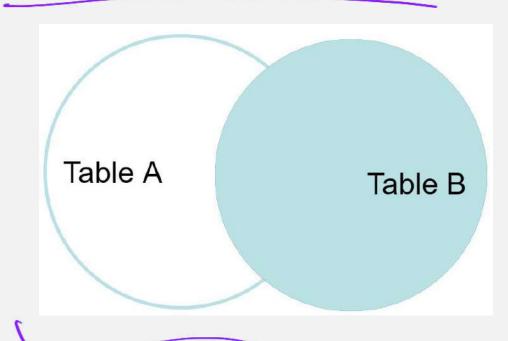
 Returns all records from the left table, and the matched records from the right table

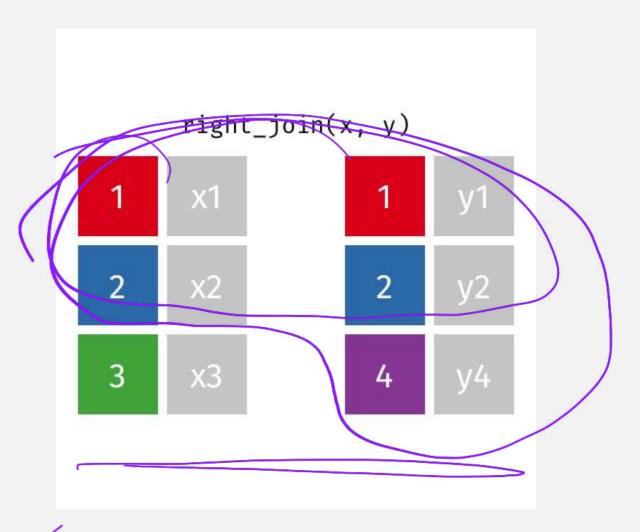




RIGHT JOIN

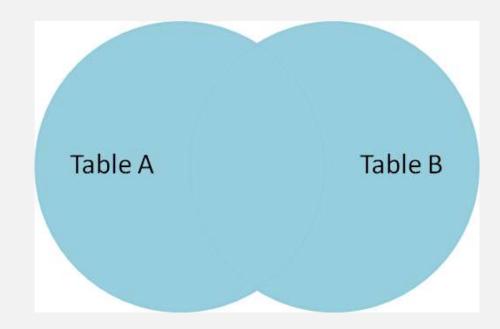
 Returns all records from the right table, and the matched records from the left table

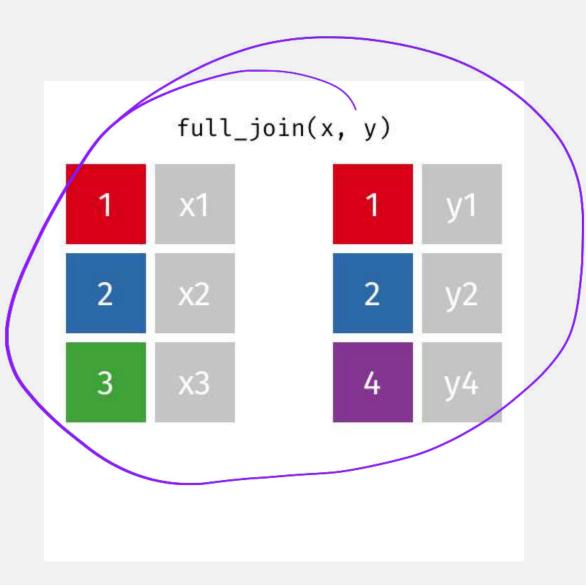




FULL JOIN

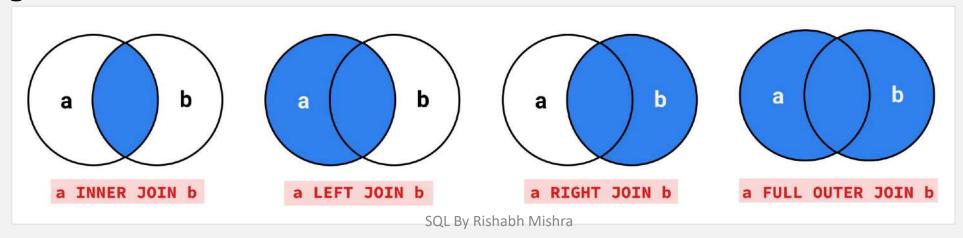
 Returns all records when there is a match in either left or right table





Which JOIN To Use

- INNER JOIN: Returns records that have matching values in both tables
- LEFT JOIN: Returns all records from the left table, and the matched records from the right table
- RIGHT JOIN: Returns all records from the right table, and the matched records from the left table
- FULL JOIN: Returns all records when there is a match in either left or right table



JOIN CHEA T SHEE T

