(Joseph Sailors M Recervations M Boats) Triname (Joseph Sailors M Recervations M Boats)
SELECT siname FROM sailovis, reservations r, boats b WHERE sinderind and ribide billide and bicolone Red VNION SELECT siname FROM sailovis, reservations r, boats b WHERE sinderind and ribide billide and bicolone Green
SELECT sname

FROM Sailors 5, reservediens r, boats b WHERE 5.310t= r.51d AND r.lad=Llid AND (bicolor=Red or b.color= aircen);

But wheel it we word names of sailors who

hove reserved a Red bood and a Gruen boat

Can we just replace OR with IND?

La NO. Because we one only dury
a query on one boad all a time...

FROM sailors s, reserv -1, books bl, reserv of books be WHTRE sixed and sixel = r2. sid and rlibed out r2. bid = b2. bid and bl. color = "Red" and b7. color = "Girch"

uary

Q: Soulors who have reserved a red or green book

UNION)

Q:"

(INTERSECT)

Ø: ,

V (EXCEPT)

INTERSECT and EXCEPT are not implemented in MyJQL (we will see how to do these operations later)

Q: Find all sids of soilors who have a rodung > 50 or have reserved boat #11?

Find sids of sailors who have rating > 50?

Lo SELECT Fid FROM Salovs WITERE rody > SO;

Find sids of sailors who have reserved boad #11?

SELECT SID FROM reservations WHERE GID TIL SELECT sid
FROM salovs
WHERE rading > SO
UNION
SELECT Sid
FROM reservations
WHERE Sid = 11;

SQL Joins

- efficiency-wise for simple commonds dese one dhe same as implicit joins (with FROM)

-but den are more dear

-they explicitly state that a join is

hoppening

- they keep the of a 6 part of the

join together ut the join syntax

- they also, for more complex greaters, but you combrol the order that operations occur in -ex. allow dilteria, before a Joint

- you will not be tosted explicitly on JOINS in SOL

-JOINS become necessary when dealing with NULL values in Joreign keys.

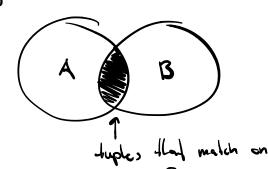
INNER JOIN

- some as Mo, some as using FROM, WHERE

SFLECT &
FROM table a a
INNER JOIN table b
ON a key = b key;

Same as

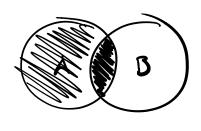
#



SECECT *
FROM fable a a, fable b b
WHERE a, key = b, key;

LEFT JOIN

SELECT +
FROM tables a
LEFT JOIN tables b
ON a key = b. kux;



RIGHT JOIN

SELECT 4
FROM table-a a
RIGHT JOIN table-b 5
ON a key = tokey

