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Gorgeous♡

SQL Notes

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SQL - Structured Query Language

Table: Students

Name	Roll No	Place	Branch

① SELECT * FROM Students

→ Selects all data from table

Midnight rain...

② SELECT DISTINCT column

→ Selects distinct rows

③ SELECT *

WHERE Place = " "

→ Selects students from a certain place

④ SELECT * FROM Students

WHERE Place = " " OR/AND Branch = " "

→ OR - Selects students in a certain place or branch

→ AND - Selects students who are from certain place and the branch

⑤ ~~NOT~~ SELECT * FROM Students

WHERE NOT Place = " "

→ Selects every student except from the certain place



Marklist

Student	Roll No.	Place	Marks	M	P	C

⑥ SELECT * FROM Marklist

ORDER BY Marks

→ It orders by ascending level of Total marks of students

ORDER BY Marks DESC

→ It orders by descending order of marks

⑦ **INSERT INTO** Students

VALUES (value 1, value 2, ...)

The more that you say...

The less I know...

⑧ **UPDATE** Students

SET Place = "Vizag"

⑨ **DELETE** FROM Students

WHERE Student = "Vikram"

⑩ SELECT **COUNT** (Students)
FROM Marklist

SELECT AVG (Students)
FROM Marklist

⑪ SELECT Student FROM Marklist
WHERE Name
LIKE 'a%'

The one that got away :(
:

→ It gives names starting with a

⑫ SELECT Students FROM Marklist
WHERE Place IN ('Vizag', 'Hyderabad')

→ It gives students who are located in the places.

⑬ SELECT Students, Marks
FROM Marklist
WHERE Marks BETWEEN '20 AND 70'

→

⑭ SELECT Student, Roll No AS R-No
FROM Marklist
WH

→ Aliases (AS) are used to give a table/column a temporary name

⑮ SELECT COUNT(Student), Place
FROM Marklist

GROUP BY Place

⑯ SELECT COUNT(Student), Place
FROM Marklist
GROUP BY Place

→ Used because WHERE cannot be
used with aggregate fns.

HAVING COUNT(Student) > 5

SQL JOINS

A JOIN is used to combine rows from two/more tables

*→ Different types of SQL JOINS:

(INNER) JOIN: Returns records that have matching values in both tables

LEFT (OUTER) JOIN:

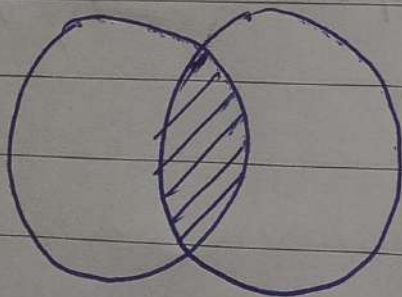
Returns all records from left table and matched records from right table

RIGHT (OUTER) JOIN:

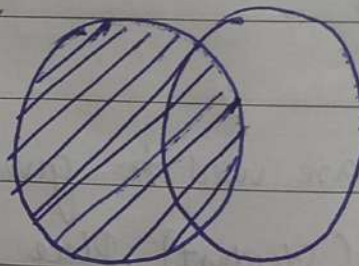
Returns all records from right table and matched records from left table.

FULL (OUTER) JOIN:

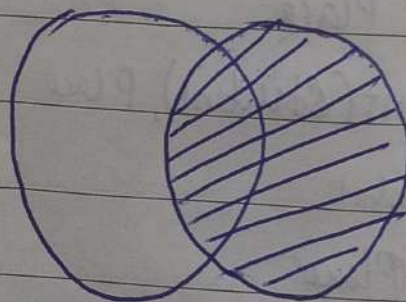
Returns all records when there is a match in either left or right table



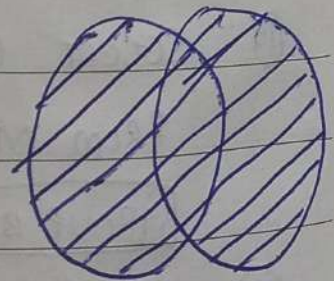
INNER JOIN



LEFT JOIN



RIGHT JOIN



FULL OUTER JOIN