J01NS-2

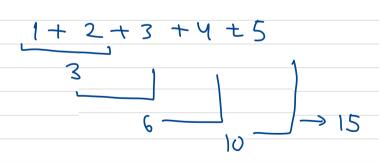
9 Join Multible Tables Compound Joins Types of Joins - INNER VS OUTER CROSS Join USING NATURAL JOIN O IMPICIT JOIN , o JOIN WITH WHERE US ON UNION

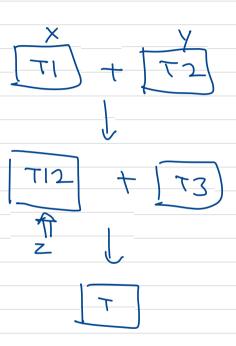
I) JOINING MULTIPLE TABLES

SELECT f.title, l1.name, l2.name
FROM film f

Pair wise manher JOIN language I1
ON f.language_id = I1.language_id
JOIN language I2

ON f.original_language_id = l2.language_id;

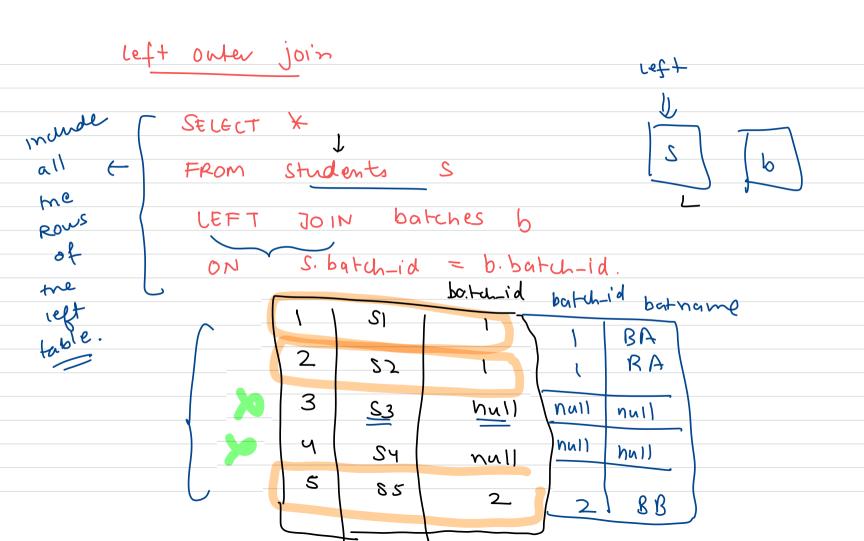




ComPOUND JOIN Any join where we have more than 1 condition. on different wis. SELECT * From Film fl JOIN Film 12 52. year BETWEEN Flyear-2 AND f1. year +2 AND (fz. rental) > fl. rental) Mutiple conditions on different als.

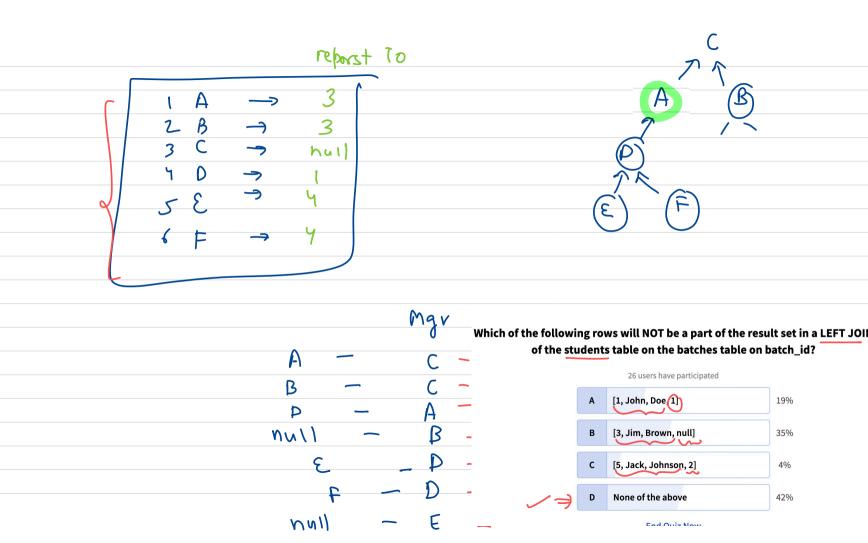
of Joins INNER Join (Default) OUTER JOIN Right Full Left 301N INNER JOIN J-s Same outer outer Join Join Join My SAZ doesn't optional support)

Student Batches bo.t-u_id Batch A SI 2 Batch B 2 25 3 Batch C S3 3 hul) Ч Sy null 5 85 Select * Inner Join L FROM student s match JOIN BUTCHES b tor ON s. batch -id = b. batch-id

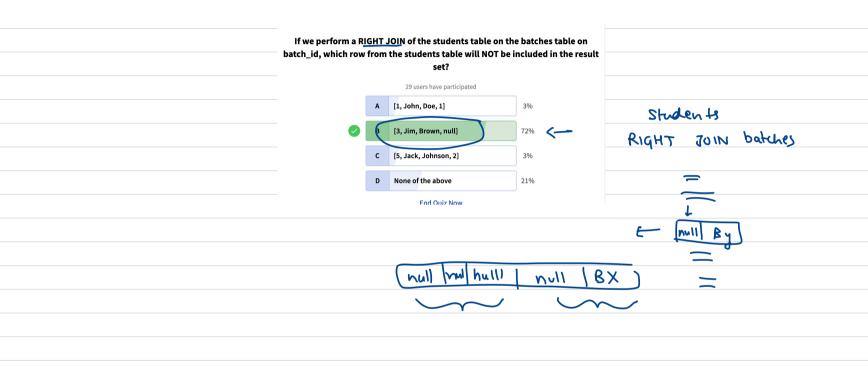


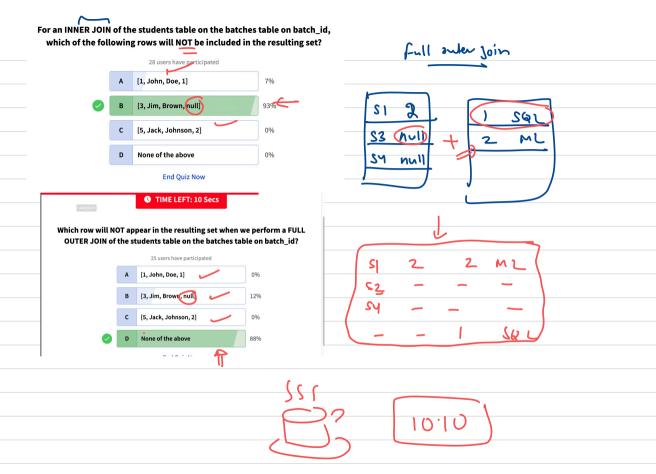
Right Join 2 Matches include all rows of the Right table batchid 51 SQI 52 TO Matches SELECT FROM SI ML StudenIs first table ML 52 SQL 53 2 batches b3 RIGHT JUIN reft table s. batch _id BX ON

= b. batch-id;



null - F -





CROSS JOIN

4 don't Specify any Condition
4 all Combinations from T1 & TZ

				T-Shirt Colors
	TI	T2		
	1		$= \mid _{T3} \mid$	S MR
	×		'	M /// Q
		V		L /// B
SELECT *				XL / /
FROM TI			λ ₄	XXL
301N T2;			, 9	15 Rous.
A				13 2003.

CROSS JOIN

USING

(Synatic Sugar)

SELECT From students s JUIN batches b = b. batch-id F s. batch-id ON equivalent SELECT X From students s JUIN batches b USING (bath-id) must be present in both

tables.

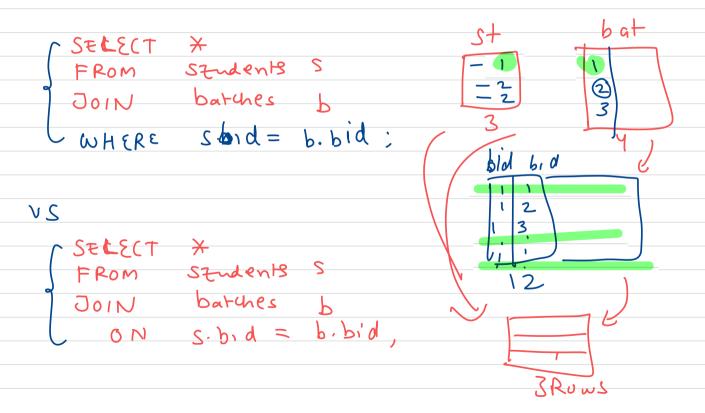
Natural Join Joining 2 Tables, they are mostly on me cols with same hame T2.B AND - will compane all wis SELECT X easy FROM TI mat have Syntax VATURAL JOIN TZ,

· Implicit Join

SELECT *
FROM students s, batches b;

Same as doing a CROSS-JOIN

JOIN WITH WHERE US ON

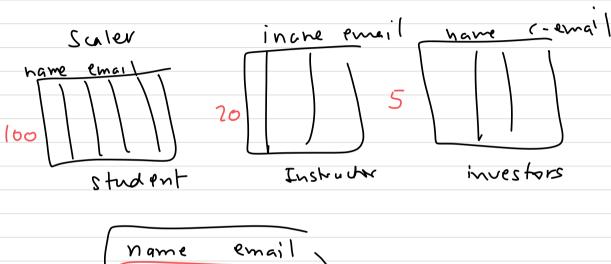


THE ON condition is applied during the creation of intermediate table, Resulting in lower memory usage and better performance.

The WHERE is applied before the printing stage, and it results in a additional memory and slower performance.

Unless you have to create all possible pairs, avoid using CROSS JOINS.

UNION



= 125 Rows



SE (ECT name, emai Students vertically FROM UNION iemai SELECT FROM instructors UNIDA hame, SELECT From investors. -- UNION SELECT firstName, email AS "Contact Info" FROM employees **UNION** SELECT customerName, phone **FROM customers** UNION SELECT first_name,last_name FROM scalerDB.students: