

what is 802 Joins?

JOIN in SBI is used to combine lows prom two per mone tables based on a related column blu them. Helps in Retrieving Meaningful information prom Relational databases by connecting data stoned in Separate tables.

when to use SUL?

1) Recombine Data.

Customers

Adorese

The combine orders

Pevilence

Orders

The combine orders

The combine orders

The combine orders

The combine orders orders orders orders

- 2) Data Enrichment "bretting Batta Data"
- 3) Check por Baistenu «Rilbering"

Jan Types Matching Data Au Data unmatching bata Bastu Advanced NO . Join upt anti join Ennen Right anei join Join Full Right Join anti join COTOSS join Full Join

SNIOL ON

Return Data perom Taides without Combining Them:



Combine.

Syntan

SELECT &
PROMA

SELBET & PROM 3.

图

FROM customers;

SELECT & PROM oorders;

E PNNER JOIN

Returns only Matching Rouss poron Both. Tables.

only only Matching

Matching only common bata.

SELECT &
PROM A JENNER

PROM A JENNER

DEFAULT TYPE JOIN B

Default ON acondition >
inner juin

A. Key = B. Key

· Order of Table Doesn't matters.

Br:- Oretall cus tomer along with their order, but only par automer who have placed an order.

SELECT &

FROM CUS tomers

TINNER JOIN orders

ON id = cus tomer-id

Table we use.

AS C AS GO

C. CHATAMED O id

c. customer o.id o.sale

ENNER JOIN uses poor - Recombise Dara

Pruening |

check Existance.

#. LEFT JOIN

only Matching prom right.

All forest 3 -- only Matching Becondary Need Primary Add. Data.

SBLECT # Luft # [PROM A] Luft # [LEFT JOH B] -> Right. ON & A.Key = B.KEY.

Honder of Tables is important.

Ez: Get au ous tomens along with their orders, in curding those without onders

SELECT

Cold,

Copinst_mane,

O.onden_id,

or sales

FROM customers AS C LEFT JOIN AB orders AS D ON C.id = D. customer_id.

Left jain use S recombine Data

Data Ensilvment.

RIGT JOIN

Returns der Rows prom Right and only Matching prom left.

Secondary Por add.

SBLEUT *
FROM A
RUST JOIN B
ON A. Key = B. Key

A ORDER of Tables in important.

Bas bret all ous to nous along so the Heir order including order without Matching customer.

SELECT

Cold,

co perst-name,

o. order-id,

O. Sells.

PROM customen As c RLONHT JOIN orders AS D ON c. Id z oous tomen_id.

I Avenance

SELECT

coid,

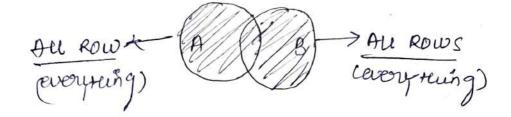
c. pinst_name,

o. order_1d,

o. sales

FROM onders AS O LEFT JOIN customers AS C ON C. Id = O. Customers id.

FULL JOIN



· Returns All Rows From Both Tables.

SELECT *
FROMA
PULLJOIN B
ON A. Key= B. Key

· order of Tables does not Matter

Ens crette au customer and onder, even Extense is no march.

Full Join use & Recombane.

+ where.

ADVANCED JOIN.

left Anti Join

Return Row prom cept that that NO MATCH on RUMT LOOKUP (priton)

Polmary
Main Sowru of para.

Por pivor.

Syntan

The order of Tables Is in portant.

SBLEUT A PROM A LEFT JOIN B

WHERE BOKEY TO NULL

ENG- SELECT &

PROM CULTOMERS AS C

LEFT JOIN Orders AS D

ON c.id = 0. customer_id

WHERE 0. customer_id TS NULL.

left anti join use to check existance.

RIGHT ANTI JOIN

Returns Rows. From Right that has NOMATCH in upt.

-cling Rows

LOOKUP (FILTON) No Data rony for pives.

primary sownermain) of Data.

syntan

SELECT &

PROM A

RIGHT JOIN B > RE AIS UPT/NO ON[A. Key] = B. Key

WHERE A-Key Is NWLL.

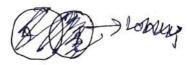
· Onder of Tables must important.

then En.

SELETCT * FROM Cus tomers AS C REUNHT JOIN Tonders AS D ON coid zo.cus tomer_id WHERE COID IS NULL.

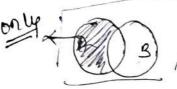
alternative way.

LBPT JOIN (Meterod)



PROM braen AS D months of the PROM braen AS D months of the PROM braen AS C & A

WHERE OF COLD IN THE NULL.



PULL ANTI JOIN

· Returns only Rows that Don't March in Either Tables.

only unma-touing row Row Row

only unmaroung Row.

SELEUT &

PULL JOIN B

ON Ankey = B. Key

WHERE

B. Key IS NUTL

OR

A- Key IS NULL

Note: Tables of order does not matter

Cid Means order hai but without customer wala order]. SELECT *

> FROM customers As C PULL JOIN anders AS O ON coid = 0 cus tomer -id WHERE Coid IS NULL OR occustomer -id

IS NULL

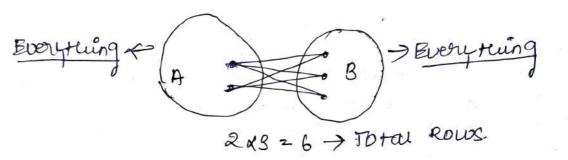
Coid = Brullz order without Another Ques customer. a. customer_id PSNULL = cust. without order · tret all cus tomer along with their orders, but only par automers who have placed an order without using CENNER JOIN)

> SELECTA FROM Customes As C LEFT JOIN orders AS O ON c.id = 0. customer-id WHERE O. customer-id TO NOT NULL Sirp wali now chalife Jaha orders side me customer-id NIZL navi erai

CROSS JOIN

Combines Every Row peron upt with Every Row peron Right.

Atl passible combinations -contesian Join.



syntan

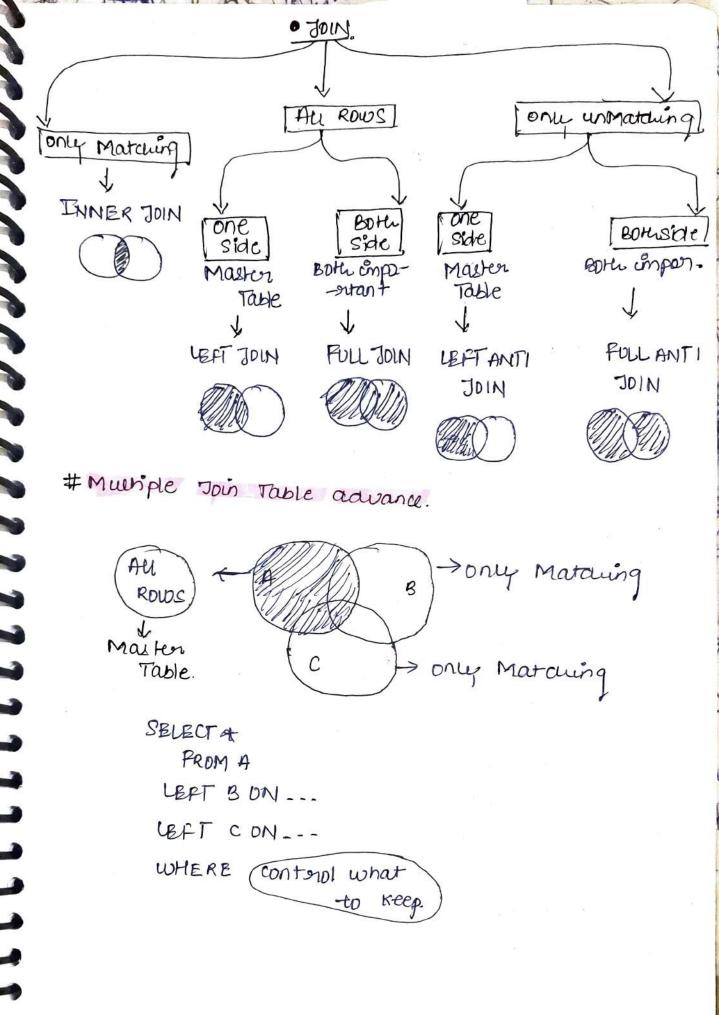
SELECT AT
PROM A
CROSS JOIN B

No condition Needed.

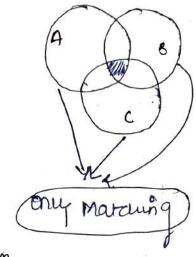
Rue, Order of Table does not Matter.

Eggs vienerate all possible combination of customers and orders

PROMA
CROCK JOIN B



#overlapping para.



Syntan

PROMA
PNNER B -PNNER C --

E-g) using sales DB, Retoriere Ust of all order, along with the Related customer, product and employee details.

20 pour eau orden, osplay.

- worden 10.
 - automer name.
 - product name.
 - sales amount,
 - personnt person.
 - sous person's name.

SELECT

o. orderID,

0. Sales & p. price AS Salus Amburt,
C. Differstname AS customer pirstname,
Colastname AS customer lastname,
P. priduct AS product Name,
P. price AS product porice,
e. pirstname AS Employeepirstname,
e. Lastname AS Employeepirstname,

FROM sales. orders As o

LEFT JOIN sales . constomers As C

DN 0, customen 10 2 c. customen 10

LEFT JOIN sales-peroduct AS P

ON 0. peroductio = p. peroductio

LEFT JOIN saves employees As e

ON O-SalespensonID = e. employee PD.