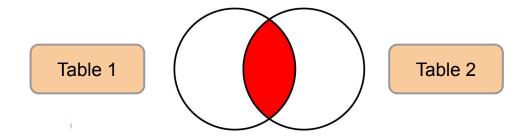


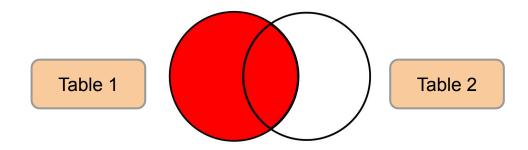
Joins in SQL

Analytics
Vidnya











Right Join

Cross Join

Left Join

Full Outer Join

Self Join







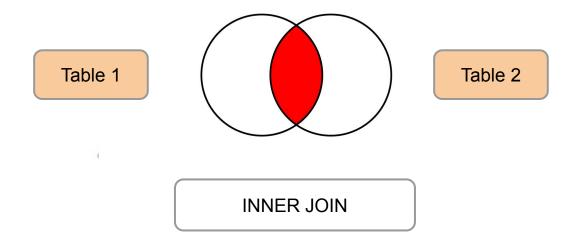




Inner Join

/ Analytics







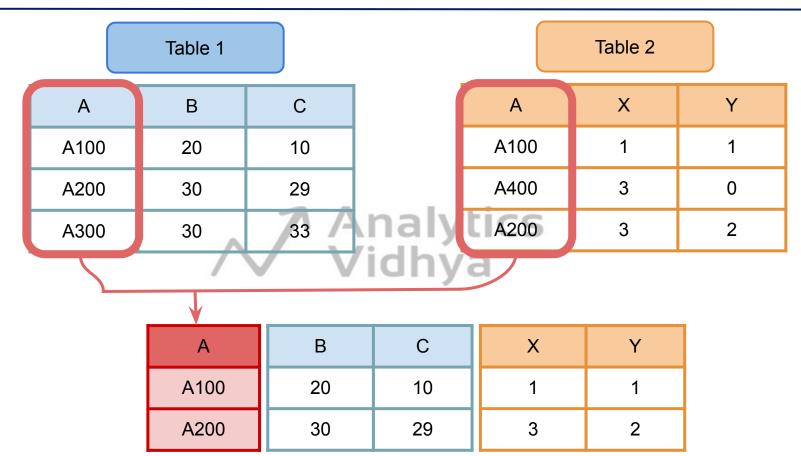
| Ta | h | اما | 1 |
|----|---|-----|---|

| Α | В | С | |
|------|----|----|-----------|
| A100 | 20 | 10 | <u>/-</u> |
| A200 | 30 | 29 | V |
| A300 | 30 | 33 | |

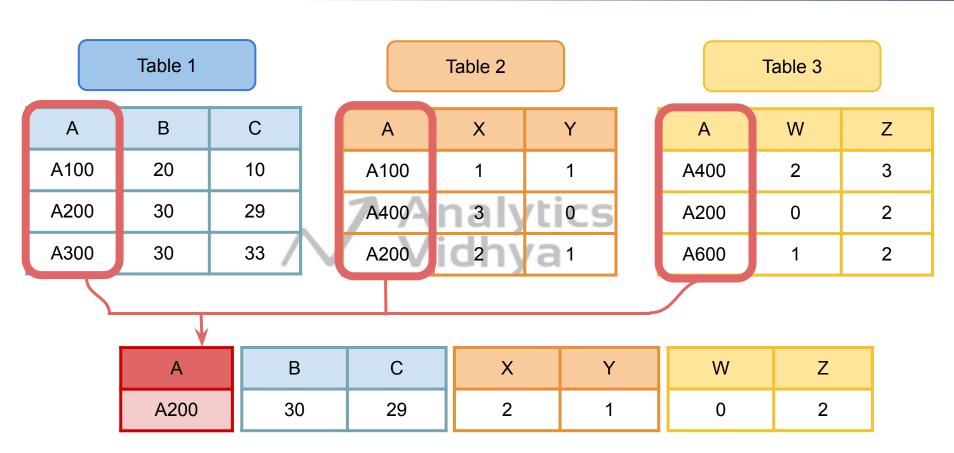
| А | X | Y |
|--------------|---|---|
| A100 | 1 | 1 |
| A 400 | 3 | 0 |
| A200 | 3 | 2 |

INNER JOIN



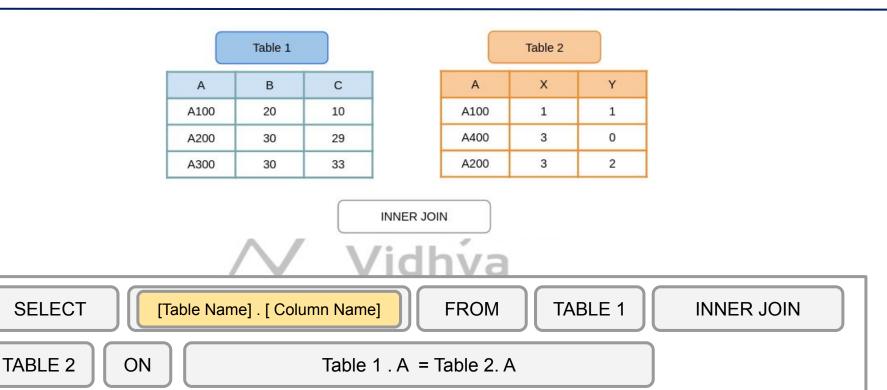






Syntax of Inner Join







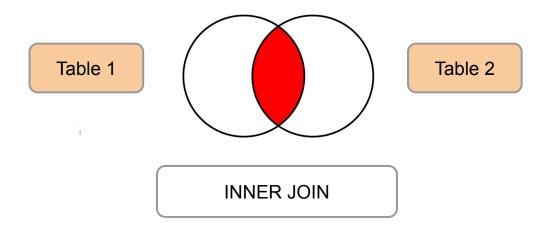




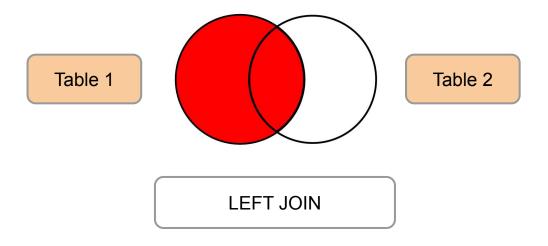
Left Join

/ Analytics

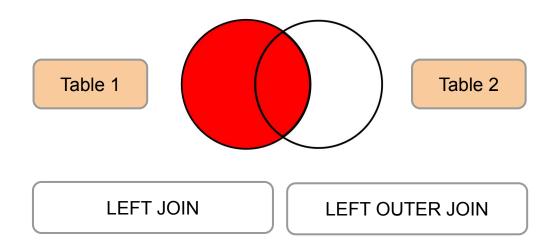














| Ta | h | اما | 1 |
|----|---|-----|---|

| Α | В | С |
|------|----|----|
| A100 | 20 | 10 |
| A200 | 30 | 29 |
| A300 | 30 | 33 |

| А | X | Y |
|--------------|---|---|
| A100 | 1 | 1 |
| A 400 | 3 | 0 |
| A200 | 3 | 2 |

LEFT JOIN



| | Table 1 | | | | Table 2 | |
|------|---------|--|------|------|---------|---|
| А | В | С | | А | X | Υ |
| A100 | 20 | 10 | | A100 | 1 | 1 |
| A200 | 30 | 29 | | A400 | 3 | 0 |
| A300 | 30 | 33 | naly | A200 | 3 | 2 |
| | | / | idhy | d | | |
| | А | В | С | X | Y | |
| | A100 | 20 | 10 | 1 | 1 | |
| | A200 | 30 | 29 | 3 | 2 | |
| | A300 | 30 | 33 | NULL | NULL | |



| | Table 1 | | | | Tabl | e 2 | | | | | Table | e 3 | | |
|------|---------|----|------|------|------|----------|------|---|-----|--------------|-------|-----|-----|--|
| А | В | С | | А | > | < | Y | | | А | W | 1 | Z | |
| A100 | 20 | 10 | | A100 | , | 1 | 1 | | A | 400 | 2 | | 3 | |
| A200 | 30 | 29 | | A400 | 3 | 3 | 0 | | A | 200 | 0 | | 2 | |
| A300 | 30 | 33 | 7. [| A200 | na | aly | /tic | S | A | \ 600 | 1 | | 2 | |
| | A | | В | С | | ny | x | | Υ | W | | | Z | |
| | A10 | | 20 | 10 | | <u> </u> | 1 | | 1 | NU | | | JLL | |
| | A20 | 00 | 30 | 29 | | <u> </u> | 2 | | 1 | 0 | | | 2 | |
| | A30 | 00 | 30 | 33 | 3 | N | ULL | N | ULL | NU | LL | N | JLL | |

Syntax of Left Join



| | Table 1 | |
|------|---------|----|
| А | В | С |
| A100 | 20 | 10 |
| A200 | 30 | 29 |
| A300 | 30 | 33 |

| | Table 2 | |
|------|---------|---|
| Α | Х | Υ |
| A100 | 1 | 1 |
| A400 | 3 | 0 |
| A200 | 3 | 2 |

LEFT JOIN

/Anaiytics Vidhya

SELECT [Table Name] . [Column Name] FROM TABLE 1 LEFT JOIN

TABLE 2 ON Table 1 . A = Table 2. A



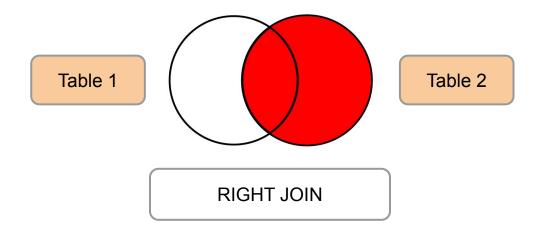




Right Join

Analytics
Vidnya







| Ta | h | ما | 1 |
|----|--------------|----|---|
| ıu | \mathbf{v} | | |

| А | В | С |
|------|----|----|
| A100 | 20 | 10 |
| A200 | 30 | 29 |
| A300 | 30 | 33 |

| А | X | Y |
|--------------|---|---|
| A100 | 1 | 1 |
| A 400 | 3 | 0 |
| A200 | 3 | 2 |

RIGHT JOIN



| | Table 1 | | | | Table 2 | |
|------|----------|------|------|------|---------|---|
| А | В | С | | А | X | Υ |
| A100 | 20 | 10 | | A100 | 1 | 1 |
| A200 | 30 | 29 | . [| A400 | 3 | 0 |
| A300 | 30 | 33 | naly | A200 | 3 | 2 |
| | <u> </u> | V V | idhy | al | | |
| | А | В | С | X | Y | |
| | A100 | 20 | 10 | 1 | 1 | |
| | A400 | NULL | NULL | 3 | 0 | |
| | A200 | 30 | 29 | 3 | 2 | |

Right Join



Table 1

Table 2

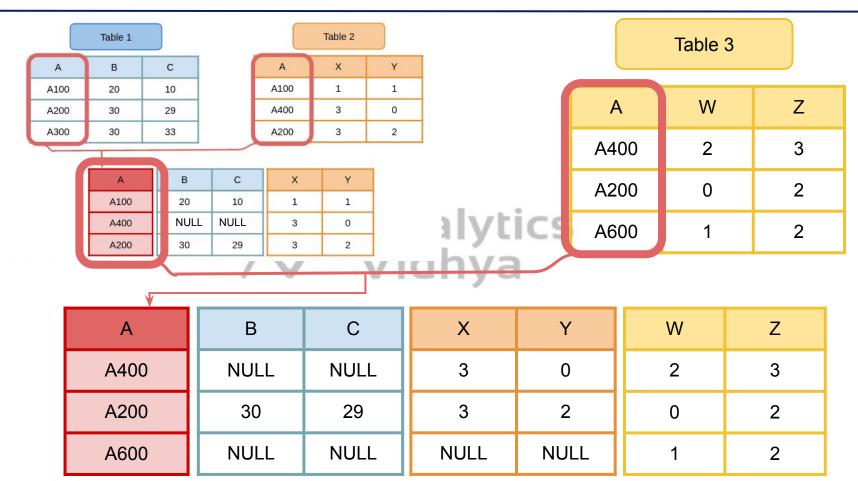
Table 3

| Α | В | С |
|------|----|----|
| A100 | 20 | 10 |
| A200 | 30 | 29 |
| A300 | 30 | 33 |

| Α | X | Y |
|------|------|-------|
| A100 | 1 | 1 |
| A400 | 3 | 0 |
| A200 | naly | tics/ |
| | idhy | /a |

| А | W | Z |
|------|---|---|
| A400 | 2 | 3 |
| A200 | 0 | 2 |
| A600 | 1 | 2 |







| Table 1 | | |
|---------|----|----|
| А | В | С |
| A100 | 20 | 10 |
| A200 | 30 | 29 |
| A300 | 30 | 33 |

| Table 2 | | |
|---------|---|---|
| Α | Х | Y |
| A100 | 1 | 1 |
| A400 | 3 | 0 |
| A200 | 3 | 2 |

RIGHT JOIN

Vidhva

SELECT [Table Name] . [Column Name] FROM TABLE 1 RIGHT JOIN

TABLE 2 ON Table 1 . A = Table 2 . A



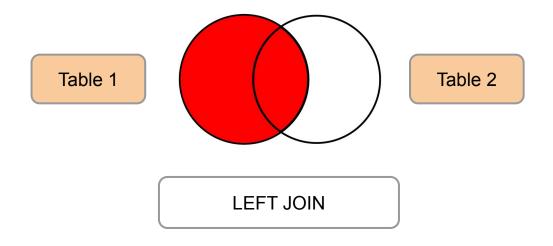




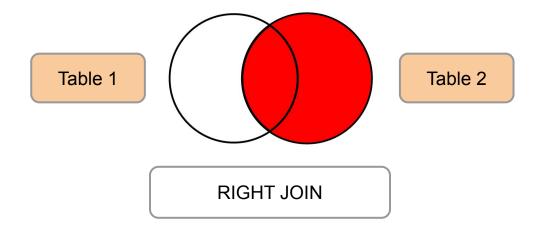
Full Outer Join

Analytics
vianya

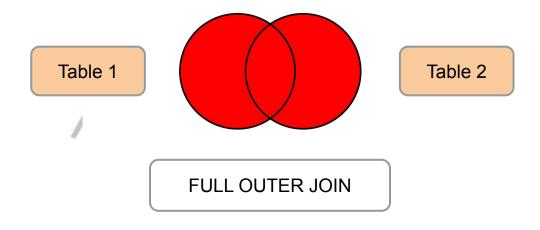














| Ta | h | ما | 1 | |
|----|---|----|---|--|
| 10 | w | 1 | | |

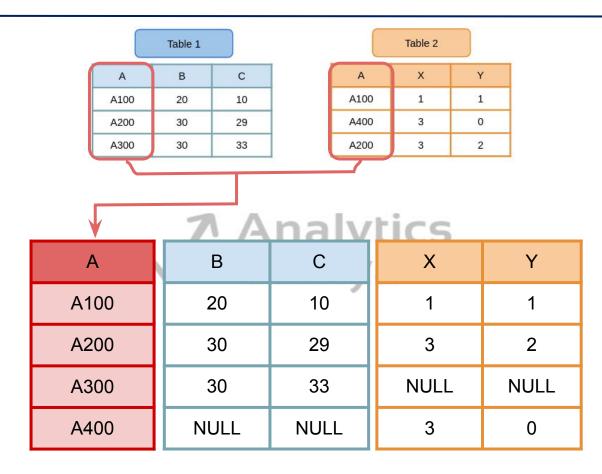
| А | В | С |
|------|----|----|
| A100 | 20 | 10 |
| A200 | 30 | 29 |
| A300 | 30 | 33 |

| А | X | Y |
|--------------|---|---|
| A100 | 1 | 1 |
| A 400 | 3 | 0 |
| A200 | 3 | 2 |

FULL OUTER JOIN

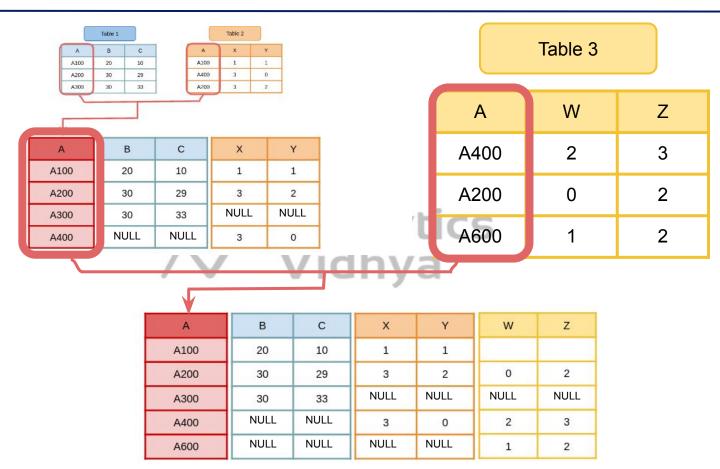
Full Outer Join





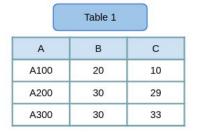
Full Outer Join





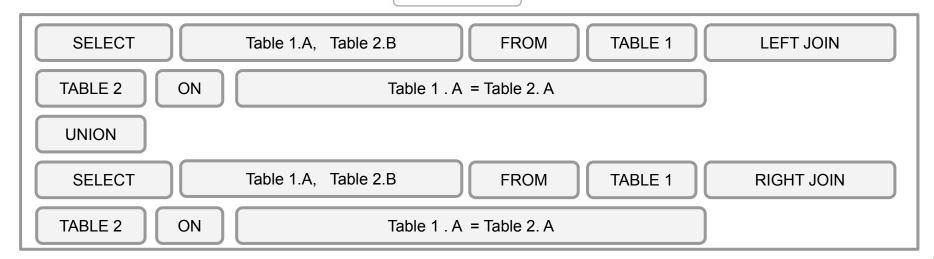
Syntax of Full Outer Join





| Table 2 | | |
|---------|---|---|
| Α | Х | Υ |
| A100 | 1 | 1 |
| A400 | 3 | 0 |
| A200 | 3 | 2 |

FULL OUTER JOIN





Thank You!

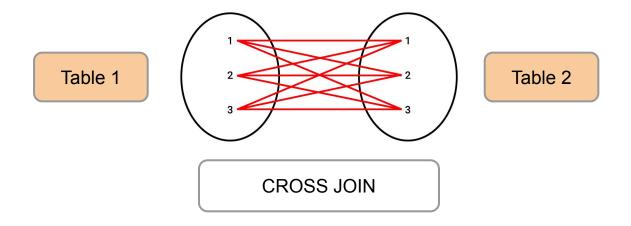




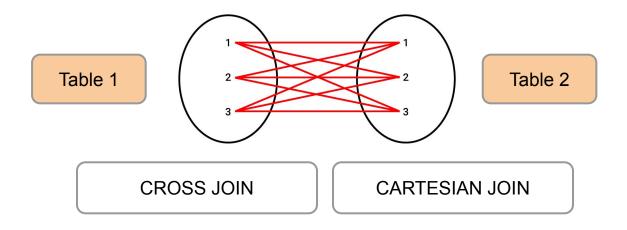
Cross Join

/ Analytics











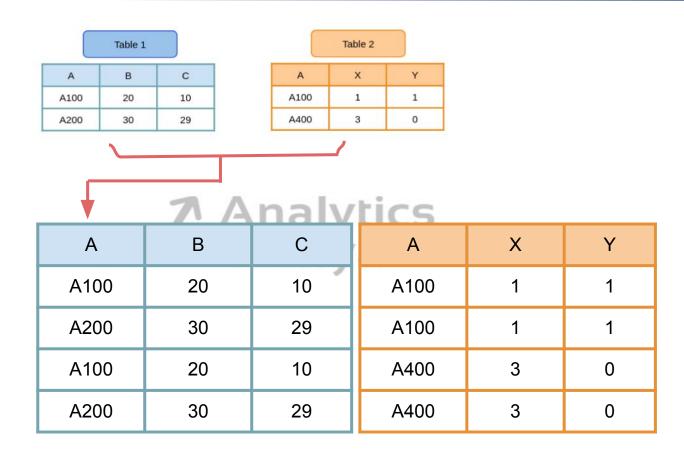
| Ta | hl | e | 1 | |
|----|----|---|---|--|
| ıa | v | | | |

| А | В | С |
|------|----|----|
| A100 | 20 | 10 |
| A200 | 30 | 29 |

| А | X | Y |
|---------------|---|---|
| A100 | 1 | 1 |
| a A400 | 3 | 0 |

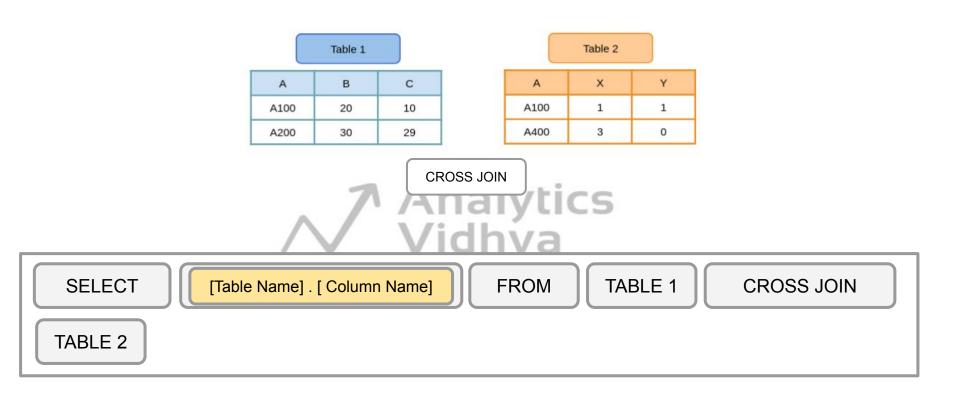
CROSS JOIN





Syntax of Cross Join







Thank You!

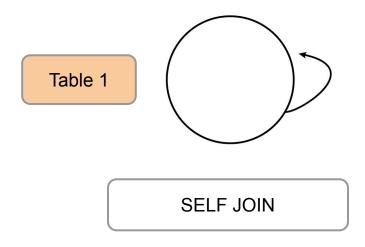




Self Join

/ Analytics







| ld | Name | Salary | Manager_id |
|------|--------|--------|------------|
| 1002 | Arjun | 100 | 1212 |
| 1324 | Shyam | 200 | 1212 |
| 1212 | Kiran | 300 | NULL |
| 2231 | Simran | 200 | 1324 |

SELF JOIN



| ld | Name | Salary | Manager_id | |
|------|--------|--------|------------|---|
| 1002 | Arjun | 100 | 1212 | |
| 1324 | Shyam | 200 | 1212 | |
| 1212 | Kiran | 300 | NULL | K |
| 2231 | Simran | 200 | 1324 | |

| Ana | IVLICS | |
|-------|---------|--|
| Name | Manager | |
| Arjun | Kiran | |



| ld | Name | Salary | Manager_id |
|------|--------|--------|------------|
| 1002 | Arjun | 100 | 1212 |
| 1324 | Shyam | 200 | 1212 |
| 1212 | Kiran | 300 | NULL |
| 2231 | Simran | 200 | 1324 |

| 1 Ana | lytics | 5 |
|-------|---------|---|
| Name | Manager | |
| Arjun | Kiran | |
| Shyam | Kiran | |



| ld | Name | Salary | Manager_id |
|------|--------|--------|------------|
| 1002 | Arjun | 100 | 1212 |
| 1324 | Shyam | 200 | 1212 |
| 1212 | Kiran | 300 | NULL |
| 2231 | Simran | 200 | 1324 |

Name Manager Arjun Kiran Shyam Kiran Kiran NULL



| ld | Name | Salary | Manager_id |
|------|--------|--------|------------|
| 1002 | Arjun | 100 | 1212 |
| 1324 | Shyam | 200 | 1212 |
| 1212 | Kiran | 300 | NULL |
| 2231 | Simran | 200 | 1324 |

7 Analytics

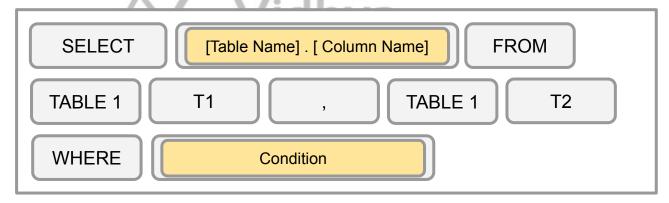
| Name | Manager | |
|--------|---------|--|
| Arjun | Kiran | |
| Shyam | Kiran | |
| Kiran | NULL | |
| Simran | Shyam | |



| | | | | 4 |
|---|---|----|------------------|---|
| _ | а | וח | \boldsymbol{p} | |
| | | | | |

| ld | Name | Salary | Manager_id |
|------|--------|--------|------------|
| 1002 | Arjun | 100 | 1212 |
| 1324 | Shyam | 200 | 1212 |
| 1212 | Kiran | 300 | NULL |
| 2231 | Simran | 200 | 1324 |

Analytics





Thank You!

