

Single table query, no WHERE filter

- Every query creates a temporary “source table” from which a “results table” is created
- In a single-table query, the WHERE clause determines which rows are in the new temporary source table
- The SELECT clause determines which columns from the source table will be in the results table.

```
FROM cust
-- no WHERE clause - take everything
```

`cust` table

| ID | fname | lname | phone |
|----|-------------|-----------|--------------|
| 1 | Ellyn | Davidzon | 209-121-2166 |
| 2 | Kerry | Corey | 557-443-1462 |
| 3 | Arny | Brendish | 103-400-2288 |
| 4 | Zachery | Simonite | 388-630-4295 |
| 5 | Liz | La Rosa | 593-616-1747 |
| 6 | Stanislas | Mountjoy | 510-108-4417 |
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Single table query, with a WHERE filter

- A WHERE filter reduces the rows in the source table.
- A SELECT filter reduces the columns in the results table.

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| 11 | Karia | Pionter | 818-438-6440 |
| 12 | Ester | Whiffin | 587-553-5127 |
| 13 | Gale | Asquith | 396-948-0244 |
| 14 | Leslie | Howgate | 267-443-5068 |
| 15 | Denison | Woodstock | 555-838-7669 |
| 16 | Rosene | Seppey | 958-950-4780 |



New Source Table

| ID | fname | lname | phone |
|----|-------------|----------|--------------|
| 3 | Arny | Brendish | 103-400-2288 |
| 9 | Austin | Kemet | 762-873-1826 |
| 10 | Anneкорinne | Alesio | 750-987-3065 |



Results Table

```
SELECT ID, fname
FROM   cust
WHERE  fname like 'A%'
```

`cust` table

| ID | fname | lname | phone |
|----|-------------|-----------|--------------|
| 1 | Ellyn | Davidzon | 209-121-2166 |
| 2 | Kerry | Corey | 557-443-1462 |
| 3 | Arny | Brendish | 103-400-2288 |
| 4 | Zachery | Simonite | 388-630-4295 |
| 5 | Liz | La Rosa | 593-616-1747 |
| 6 | Stanislas | Mountjoy | 510-108-4417 |
| 7 | Guinevere | Papis | 873-197-5088 |
| 8 | Kessiah | Richmond | 713-886-1172 |
| 9 | Austin | Kemet | 762-873-1826 |
| 10 | Annecorinne | Alesio | 750-987-3065 |
| 11 | Karia | Pionter | 818-438-6440 |
| 12 | Ester | Whiffin | 587-553-5127 |
| 13 | Gale | Asquith | 396-948-0244 |
| 14 | Leslie | Howgate | 267-443-5068 |
| 15 | Denison | Woodstock | 555-838-7669 |
| 16 | Rosene | Seppey | 958-950-4780 |



New Source Table

| ID | fname | lname | phone |
|----|-------------|----------|--------------|
| 3 | Arny | Brendish | 103-400-2288 |
| 9 | Austin | Kemet | 762-873-1826 |
| 10 | Annecorinne | Alesio | 750-987-3065 |



Results Table

| ID | fname |
|----|-------|
|----|-------|

```
SELECT ID, fname
FROM cust
WHERE fname like 'A%'
```

`cust` table

| ID | fname | lname | phone |
|----|-------------|-----------|--------------|
| 1 | Ellyn | Davidzon | 209-121-2166 |
| 2 | Kerry | Corey | 557-443-1462 |
| 3 | Arny | Brendish | 103-400-2288 |
| 4 | Zachery | Simonite | 388-630-4295 |
| 5 | Liz | La Rosa | 593-616-1747 |
| 6 | Stanislas | Mountjoy | 510-108-4417 |
| 7 | Guinevere | Papis | 873-197-5088 |
| 8 | Kessiah | Richmond | 713-886-1172 |
| 9 | Austin | Kemet | 762-873-1826 |
| 10 | Annecorinne | Alesio | 750-987-3065 |
| 11 | Karia | Pionter | 818-438-6440 |
| 12 | Ester | Whiffin | 587-553-5127 |
| 13 | Gale | Asquith | 396-948-0244 |
| 14 | Leslie | Howgate | 267-443-5068 |
| 15 | Denison | Woodstock | 555-838-7669 |
| 16 | Rosene | Seppey | 958-950-4780 |



New Source Table

| ID | fname | lname | phone |
|----|-------------|----------|--------------|
| 3 | Arny | Brendish | 103-400-2288 |
| 9 | Austin | Kemet | 762-873-1826 |
| 10 | Annecorinne | Alesio | 750-987-3065 |



Results Table

| ID | fname |
|----|-------------|
| 3 | Arny |
| 9 | Austin |
| 10 | Annecorinne |

```
SELECT ID, fname
FROM   cust
WHERE  fname like 'A%'
```

`cust` table

| ID | fname | lname | phone |
|----|-------------|-----------|--------------|
| 1 | Ellyn | Davidzon | 209-121-2166 |
| 2 | Kerry | Corey | 557-443-1462 |
| 3 | Arny | Brendish | 103-400-2288 |
| 4 | Zachery | Simonite | 388-630-4295 |
| 5 | Liz | La Rosa | 593-616-1747 |
| 6 | Stanislas | Mountjoy | 510-108-4417 |
| 7 | Guinevere | Papis | 873-197-5088 |
| 8 | Kessiah | Richmond | 713-886-1172 |
| 9 | Austin | Kemet | 762-873-1826 |
| 10 | Annecorinne | Alesio | 750-987-3065 |
| 11 | Karia | Pionter | 818-438-6440 |
| 12 | Ester | Whiffin | 587-553-5127 |
| 13 | Gale | Asquith | 396-948-0244 |
| 14 | Leslie | Howgate | 267-443-5068 |
| 15 | Denison | Woodstock | 555-838-7669 |
| 16 | Rosene | Seppey | 958-950-4780 |



New Source Table

| ID | fname | lname | phone |
|----|-------------|----------|--------------|
| 3 | Arny | Brendish | 103-400-2288 |
| 9 | Austin | Kemet | 762-873-1826 |
| 10 | Annecorinne | Alesio | 750-987-3065 |



Results Table

| ID | fname |
|----|-------------|
| 3 | Arny |
| 9 | Austin |
| 10 | Annecorinne |

```
SELECT ID, fname
FROM cust
WHERE fname like 'A%'
```

`cust` table

| ID | fname | lname | phone |
|----|-------------|-----------|--------------|
| 1 | Ellyn | Davidzon | 209-121-2166 |
| 2 | Kerry | Corey | 557-443-1462 |
| 3 | Arny | Brendish | 103-400-2288 |
| 4 | Zachery | Simonite | 388-630-4295 |
| 5 | Liz | La Rosa | 593-616-1747 |
| 6 | Stanislas | Mountjoy | 510-108-4417 |
| 7 | Guinevere | Papis | 873-197-5088 |
| 8 | Kessiah | Richmond | 713-886-1172 |
| 9 | Austin | Kemet | 762-873-1826 |
| 10 | Annecorinne | Alesio | 750-987-3065 |
| 11 | Karia | Pionter | 818-438-6440 |
| 12 | Ester | Whiffin | 587-553-5127 |
| 13 | Gale | Asquith | 396-948-0244 |
| 14 | Leslie | Howgate | 267-443-5068 |
| 15 | Denison | Woodstock | 555-838-7669 |
| 16 | Rosene | Seppey | 958-950-4780 |

Results Table

| ID | fname |
|----|-------------|
| 3 | Arny |
| 9 | Austin |
| 10 | Annecorinne |

Multi-table query (JOIN) with a WHERE filter

- A JOIN statement combines a FROM table with a new table to create a new *temporary source* table
- An ON clause reduces the rows in the *source* table
 - No ON clause means ALL of the rows remain in the *source* table
- Each additional JOIN statement joins a new table to the *source* table
- The ON clause with each JOIN statement reduces the rows in the *source* table
- WHERE and ORDER BY clauses are applied to the final *source* table, restricting the rows in the *source* table
- The SELECT clause filters the columns in the *source* table to create the *results* table.

`cust` table

| ID | fname | lname | phone |
|----|-------|----------|--------------|
| 1 | Ellyn | Davidzon | 209-121-2166 |
| 2 | Kerry | Corey | 557-443-1462 |
| 3 | Army | Brendish | 103-400-2288 |

`inv` table

| ID | date | amount | customer_id |
|----|------------|--------------|-------------|
| 1 | 2019-01-05 | 1456.76 | 3 |
| 2 | 2019-07-15 | 13.21 | 2 |
| 3 | 2019-10-02 | 103-400-2288 | 1 |

FROM cust
JOIN inv

`cust` table

| ID | fname | lname | phone |
|----|-------|----------|--------------|
| 1 | Ellyn | Davidzon | 209-121-2166 |
| 2 | Kerry | Corey | 557-443-1462 |
| 3 | Army | Brendish | 103-400-2288 |

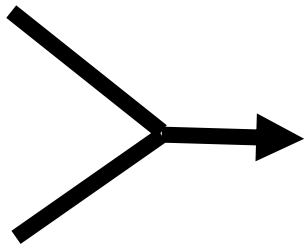
`inv` table

| ID | date | amount | customer_id |
|----|------------|--------------|-------------|
| 1 | 2019-01-05 | 1456.76 | 3 |
| 2 | 2019-07-15 | 13.21 | 2 |
| 3 | 2019-10-02 | 103-400-2288 | 1 |

FROM cust
JOIN inv

`cust` table

| ID | fname | lname | phone |
|----|-------|----------|--------------|
| 1 | Ellyn | Davidzon | 209-121-2166 |
| 2 | Kerry | Corey | 557-443-1462 |
| 3 | Army | Brendish | 103-400-2288 |



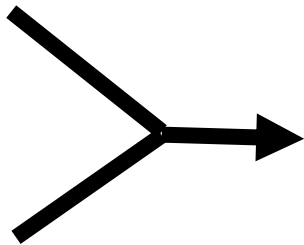
`inv` table

| ID | date | amount | customer_id |
|----|------------|--------------|-------------|
| 1 | 2019-01-05 | 1456.76 | 3 |
| 2 | 2019-07-15 | 13.21 | 2 |
| 3 | 2019-10-02 | 103-400-2288 | 1 |

FROM cust
JOIN inv

`cust` table

| ID | fname | lname | phone |
|----|-------|----------|--------------|
| 1 | Ellyn | Davidzon | 209-121-2166 |
| 2 | Kerry | Corey | 557-443-1462 |
| 3 | Army | Brendish | 103-400-2288 |



`inv` table

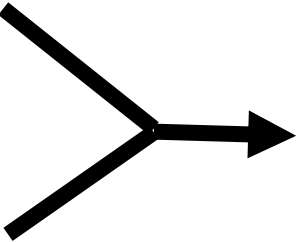
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|----|------------|--------------|-------------|
| 1 | 2019-01-05 | 1456.76 | 3 |
| 2 | 2019-07-15 | 13.21 | 2 |
| 3 | 2019-10-02 | 103-400-2288 | 1 |

| ID | fname | lname | phone |
|----|-------|-------|-------|
|----|-------|-------|-------|

FROM cust
JOIN inv

`cust` table

| ID | fname | lname | phone |
|----|-------|----------|--------------|
| 1 | Ellyn | Davidzon | 209-121-2166 |
| 2 | Kerry | Corey | 557-443-1462 |
| 3 | Army | Brendish | 103-400-2288 |



`inv` table

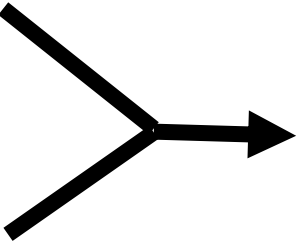
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|----|------------|--------------|-------------|
| 1 | 2019-01-05 | 1456.76 | 3 |
| 2 | 2019-07-15 | 13.21 | 2 |
| 3 | 2019-10-02 | 103-400-2288 | 1 |

| ID | fname | lname | phone | ID | date | amount | customer_id |
|----|-------|-------|-------|----|------|--------|-------------|
|----|-------|-------|-------|----|------|--------|-------------|

FROM cust
JOIN inv

`cust` table

| ID | fname | lname | phone |
|----|-------|----------|--------------|
| 1 | Ellyn | Davidzon | 209-121-2166 |
| 2 | Kerry | Corey | 557-443-1462 |
| 3 | Army | Brendish | 103-400-2288 |



`inv` table

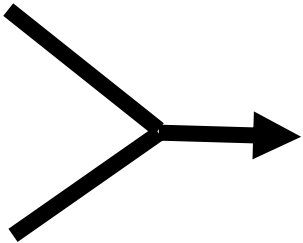
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|----|------------|--------------|-------------|
| 1 | 2019-01-05 | 1456.76 | 3 |
| 2 | 2019-07-15 | 13.21 | 2 |
| 3 | 2019-10-02 | 103-400-2288 | 1 |

| ID | fname | lname | phone | ID | date | amount | customer_id |
|----|-------|----------|--------------|----|------|--------|-------------|
| 1 | Ellyn | Davidzon | 209-121-2166 | | | | |

FROM cust
JOIN inv

`cust` table

| ID | fname | lname | phone |
|----|-------|----------|--------------|
| 1 | Ellyn | Davidzon | 209-121-2166 |
| 2 | Kerry | Corey | 557-443-1462 |
| 3 | Army | Brendish | 103-400-2288 |



`inv` table

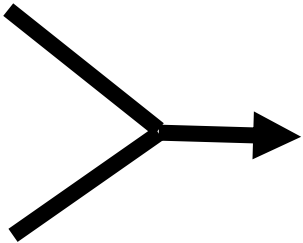
| ID | date | amount | customer_id |
|----|------------|--------------|-------------|
| 1 | 2019-01-05 | 1456.76 | 3 |
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| ID | fname | lname | phone | ID | date | amount | customer_id |
|----|-------|----------|--------------|----|------------|---------|-------------|
| 1 | Ellyn | Davidzon | 209-121-2166 | 1 | 2019-01-05 | 1456.76 | 3 |

FROM cust
JOIN inv

`cust` table

| ID | fname | lname | phone |
|----|-------|----------|--------------|
| 1 | Ellyn | Davidzon | 209-121-2166 |
| 2 | Kerry | Corey | 557-443-1462 |
| 3 | Army | Brendish | 103-400-2288 |



`inv` table

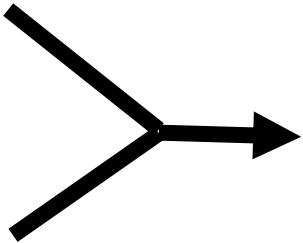
| ID | date | amount | customer_id |
|----|------------|--------------|-------------|
| 1 | 2019-01-05 | 1456.76 | 3 |
| 2 | 2019-07-15 | 13.21 | 2 |
| 3 | 2019-10-02 | 103-400-2288 | 1 |

| ID | fname | lname | phone | ID | date | amount | customer_id |
|----|-------|----------|--------------|----|------------|---------|-------------|
| 1 | Ellyn | Davidzon | 209-121-2166 | 1 | 2019-01-05 | 1456.76 | 3 |
| 1 | Ellyn | Davidzon | 209-121-2166 | | | | |

FROM cust
JOIN inv

`cust` table

| ID | fname | lname | phone |
|----|-------|----------|--------------|
| 1 | Ellyn | Davidzon | 209-121-2166 |
| 2 | Kerry | Corey | 557-443-1462 |
| 3 | Army | Brendish | 103-400-2288 |



`inv` table

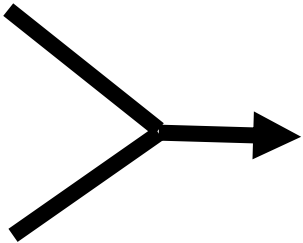
| ID | date | amount | customer_id |
|----|------------|--------------|-------------|
| 1 | 2019-01-05 | 1456.76 | 3 |
| 2 | 2019-07-15 | 13.21 | 2 |
| 3 | 2019-10-02 | 103-400-2288 | 1 |

| ID | fname | lname | phone | ID | date | amount | customer_id |
|----|-------|----------|--------------|----|------------|---------|-------------|
| 1 | Ellyn | Davidzon | 209-121-2166 | 1 | 2019-01-05 | 1456.76 | 3 |
| 1 | Ellyn | Davidzon | 209-121-2166 | 2 | 2019-07-15 | 13.21 | 2 |

FROM cust
JOIN inv

`cust` table

| ID | fname | lname | phone |
|----|-------|----------|--------------|
| 1 | Ellyn | Davidzon | 209-121-2166 |
| 2 | Kerry | Corey | 557-443-1462 |
| 3 | Army | Brendish | 103-400-2288 |



`inv` table

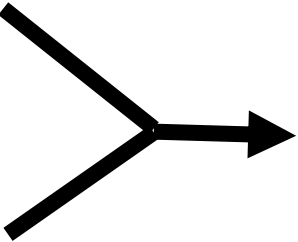
| ID | date | amount | customer_id |
|----|------------|--------------|-------------|
| 1 | 2019-01-05 | 1456.76 | 3 |
| 2 | 2019-07-15 | 13.21 | 2 |
| 3 | 2019-10-02 | 103-400-2288 | 1 |

| ID | fname | lname | phone | ID | date | amount | customer_id |
|----|-------|----------|--------------|----|------------|--------------|-------------|
| 1 | Ellyn | Davidzon | 209-121-2166 | 1 | 2019-01-05 | 1456.76 | 3 |
| 1 | Ellyn | Davidzon | 209-121-2166 | 2 | 2019-07-15 | 13.21 | 2 |
| 1 | Ellyn | Davidzon | 209-121-2166 | 3 | 2019-10-02 | 103-400-2288 | 1 |

FROM cust
JOIN inv

`cust` table

| ID | fname | lname | phone |
|----|-------|----------|--------------|
| 1 | Ellyn | Davidzon | 209-121-2166 |
| 2 | Kerry | Corey | 557-443-1462 |
| 3 | Army | Brendish | 103-400-2288 |



`inv` table

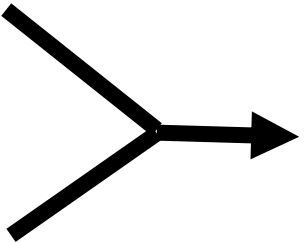
| ID | date | amount | customer_id |
|----|------------|--------------|-------------|
| 1 | 2019-01-05 | 1456.76 | 3 |
| 2 | 2019-07-15 | 13.21 | 2 |
| 3 | 2019-10-02 | 103-400-2288 | 1 |

| ID | fname | lname | phone | ID | date | amount | customer_id |
|----|-------|----------|--------------|----|------------|--------------|-------------|
| 1 | Ellyn | Davidzon | 209-121-2166 | 1 | 2019-01-05 | 1456.76 | 3 |
| 1 | Ellyn | Davidzon | 209-121-2166 | 2 | 2019-07-15 | 13.21 | 2 |
| 1 | Ellyn | Davidzon | 209-121-2166 | 3 | 2019-10-02 | 103-400-2288 | 1 |
| 2 | Kerry | Corey | 557-443-1462 | 1 | 2019-01-05 | 1456.76 | 3 |
| 2 | Kerry | Corey | 557-443-1462 | 2 | 2019-07-15 | 13.21 | 2 |
| 2 | Kerry | Corey | 557-443-1462 | 3 | 2019-10-02 | 103-400-2288 | 1 |

FROM cust
JOIN inv

`cust` table

| ID | fname | lname | phone |
|----|-------|----------|--------------|
| 1 | Ellyn | Davidzon | 209-121-2166 |
| 2 | Kerry | Corey | 557-443-1462 |
| 3 | Arny | Brendish | 103-400-2288 |



`inv` table

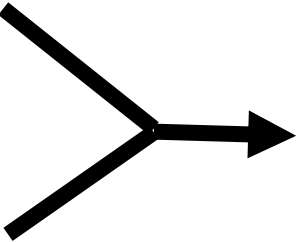
| ID | date | amount | customer_id |
|----|------------|--------------|-------------|
| 1 | 2019-01-05 | 1456.76 | 3 |
| 2 | 2019-07-15 | 13.21 | 2 |
| 3 | 2019-10-02 | 103-400-2288 | 1 |

| ID | fname | lname | phone | ID | date | amount | customer_id |
|----|-------|----------|--------------|----|------------|--------------|-------------|
| 1 | Ellyn | Davidzon | 209-121-2166 | 1 | 2019-01-05 | 1456.76 | 3 |
| 1 | Ellyn | Davidzon | 209-121-2166 | 2 | 2019-07-15 | 13.21 | 2 |
| 1 | Ellyn | Davidzon | 209-121-2166 | 3 | 2019-10-02 | 103-400-2288 | 1 |
| 2 | Kerry | Corey | 557-443-1462 | 1 | 2019-01-05 | 1456.76 | 3 |
| 2 | Kerry | Corey | 557-443-1462 | 2 | 2019-07-15 | 13.21 | 2 |
| 2 | Kerry | Corey | 557-443-1462 | 3 | 2019-10-02 | 103-400-2288 | 1 |
| 3 | Arny | Brendish | 103-400-2288 | 1 | 2019-01-05 | 1456.76 | 3 |
| 3 | Arny | Brendish | 103-400-2288 | 2 | 2019-07-15 | 13.21 | 2 |
| 3 | Arny | Brendish | 103-400-2288 | 3 | 2019-10-02 | 103-400-2288 | 1 |

FROM cust
JOIN inv

`cust` table

| ID | fname | lname | phone |
|----|-------|----------|--------------|
| 1 | Ellyn | Davidzon | 209-121-2166 |
| 2 | Kerry | Corey | 557-443-1462 |
| 3 | Arny | Brendish | 103-400-2288 |



`inv` table

| ID | date | amount | customer_id |
|----|------------|--------------|-------------|
| 1 | 2019-01-05 | 1456.76 | 3 |
| 2 | 2019-07-15 | 13.21 | 2 |
| 3 | 2019-10-02 | 103-400-2288 | 1 |

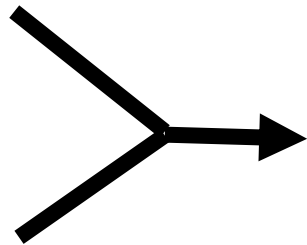
New Source Table

| ID | fname | lname | phone | ID | date | amount | customer_id |
|----|-------|----------|--------------|----|------------|--------------|-------------|
| 1 | Ellyn | Davidzon | 209-121-2166 | 1 | 2019-01-05 | 1456.76 | 3 |
| 1 | Ellyn | Davidzon | 209-121-2166 | 2 | 2019-07-15 | 13.21 | 2 |
| 1 | Ellyn | Davidzon | 209-121-2166 | 3 | 2019-10-02 | 103-400-2288 | 1 |
| 2 | Kerry | Corey | 557-443-1462 | 1 | 2019-01-05 | 1456.76 | 3 |
| 2 | Kerry | Corey | 557-443-1462 | 2 | 2019-07-15 | 13.21 | 2 |
| 2 | Kerry | Corey | 557-443-1462 | 3 | 2019-10-02 | 103-400-2288 | 1 |
| 3 | Arny | Brendish | 103-400-2288 | 1 | 2019-01-05 | 1456.76 | 3 |
| 3 | Arny | Brendish | 103-400-2288 | 2 | 2019-07-15 | 13.21 | 2 |
| 3 | Arny | Brendish | 103-400-2288 | 3 | 2019-10-02 | 103-400-2288 | 1 |

```
FROM cust
JOIN inv
ON cust.id = inv.customer_id
```

`cust` table

| ID | fname | lname | phone |
|----|-------|----------|--------------|
| 1 | Ellyn | Davidzon | 209-121-2166 |
| 2 | Kerry | Corey | 557-443-1462 |
| 3 | Arny | Brendish | 103-400-2288 |



`inv` table

| ID | date | amount | customer_id |
|----|------------|--------------|-------------|
| 1 | 2019-01-05 | 1456.76 | 3 |
| 2 | 2019-07-15 | 13.21 | 2 |
| 3 | 2019-10-02 | 103-400-2288 | 1 |

New Source Table

| ID | fname | lname | phone | ID | date | amount | customer_id |
|----|-------|----------|--------------|----|------------|--------------|-------------|
| 1 | Ellyn | Davidzon | 209-121-2166 | 1 | 2019-01-05 | 1456.76 | 3 |
| 1 | Ellyn | Davidzon | 209-121-2166 | 2 | 2019-07-15 | 13.21 | 2 |
| 1 | Ellyn | Davidzon | 209-121-2166 | 3 | 2019-10-02 | 103-400-2288 | 1 |
| 2 | Kerry | Corey | 557-443-1462 | 1 | 2019-01-05 | 1456.76 | 3 |
| 2 | Kerry | Corey | 557-443-1462 | 2 | 2019-07-15 | 13.21 | 2 |
| 2 | Kerry | Corey | 557-443-1462 | 3 | 2019-10-02 | 103-400-2288 | 1 |
| 3 | Arny | Brendish | 103-400-2288 | 1 | 2019-01-05 | 1456.76 | 3 |
| 3 | Arny | Brendish | 103-400-2288 | 2 | 2019-07-15 | 13.21 | 2 |
| 3 | Arny | Brendish | 103-400-2288 | 3 | 2019-10-02 | 103-400-2288 | 1 |

```

FROM    cust
JOIN    inv
ON      cust.id = inv.customer_id

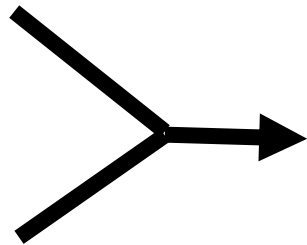
```

`cust` table

| ID | fname | lname | phone |
|----|-------|----------|--------------|
| 1 | Ellyn | Davidzon | 209-121-2166 |
| 2 | Kerry | Corey | 557-443-1462 |
| 3 | Arny | Brendish | 103-400-2288 |

`inv` table

| ID | date | amount | customer_id |
|----|------------|--------------|-------------|
| 1 | 2019-01-05 | 1456.76 | 3 |
| 2 | 2019-07-15 | 13.21 | 2 |
| 3 | 2019-10-02 | 103-400-2288 | 1 |



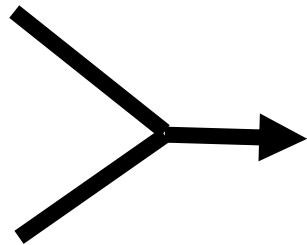
New Source Table

| ID | fname | lname | phone | ID | date | amount | customer_id |
|----|-------|----------|--------------|----|------------|--------------|-------------|
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| 1 | Ellyn | Davidzon | 209-121-2166 | 2 | 2019-07-15 | 13.21 | 2 |
| 1 | Ellyn | Davidzon | 209-121-2166 | 3 | 2019-10-02 | 103-400-2288 | 1 |
| 2 | Kerry | Corey | 557-443-1462 | 1 | 2019-01-05 | 1456.76 | 3 |
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FROM    cust
JOIN    inv
ON      cust.id = inv.customer_id

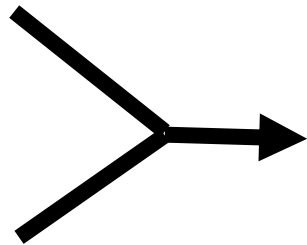
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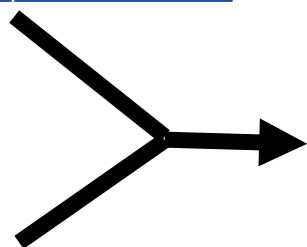
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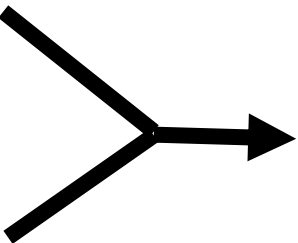
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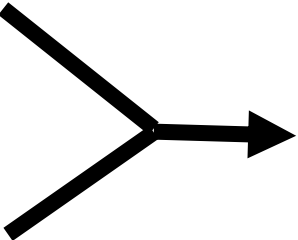
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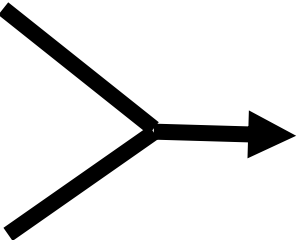
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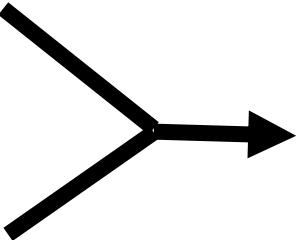
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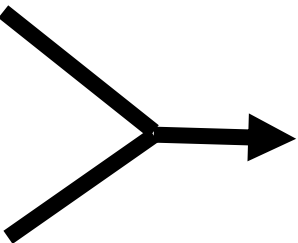
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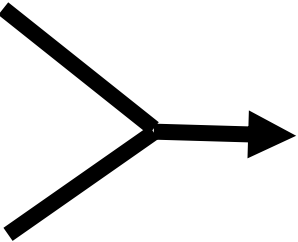
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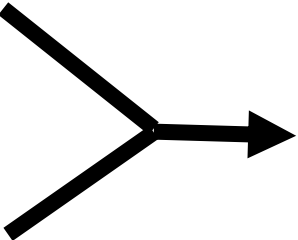
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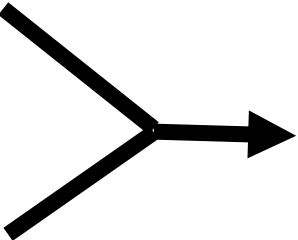
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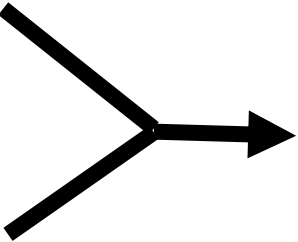
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| 3 | Arny | Brendish | 103-400-2288 | 2 | 2019-07-15 | 13.21 | 2 |
| 3 | Arny | Brendish | 103-400-2288 | 3 | 2019-10-02 | 103-400-2288 | 1 |

```
FROM cust
JOIN inv
ON cust.id = inv.customer_id
```

`cust` table

| ID | fname | lname | phone |
|----|-------|----------|--------------|
| 1 | Ellyn | Davidzon | 209-121-2166 |
| 2 | Kerry | Corey | 557-443-1462 |
| 3 | Army | Brendish | 103-400-2288 |



`inv` table

| ID | date | amount | customer_id |
|----|------------|--------------|-------------|
| 1 | 2019-01-05 | 1456.76 | 3 |
| 2 | 2019-07-15 | 13.21 | 2 |
| 3 | 2019-10-02 | 103-400-2288 | 1 |

New Source Table

| ID | fname | lname | phone | ID | date | amount | customer_id |
|----|-------|----------|--------------|----|------------|--------------|-------------|
| 1 | Ellyn | Davidzon | 209-121-2166 | 3 | 2019-10-02 | 103-400-2288 | 1 |
| 2 | Kerry | Corey | 557-443-1462 | 2 | 2019-07-15 | 13.21 | 2 |
| 3 | Army | Brendish | 103-400-2288 | 1 | 2019-01-05 | 1456.76 | 3 |

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| ID | date | amount | customer_id |
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New Source Table

| ID | fname | lname | phone | ID | date | amount | customer_id |
|----|-------|----------|--------------|----|------------|--------------|-------------|
| 1 | Ellyn | Davidzon | 209-121-2166 | 3 | 2019-10-02 | 103-400-2288 | 1 |
| 2 | Kerry | Corey | 557-443-1462 | 2 | 2019-07-15 | 13.21 | 2 |
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`inv` table

| ID | date | amount | customer_id |
|----|------------|--------------|-------------|
| 1 | 2019-01-05 | 1456.76 | 3 |
| 2 | 2019-07-15 | 13.21 | 2 |
| 3 | 2019-10-02 | 103-400-2288 | 1 |

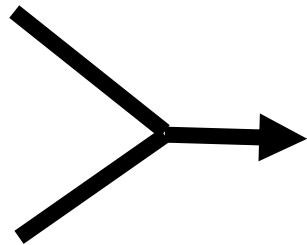
New Source Table

| ID | fname | lname | phone | ID | date | amount | customer_id |
|----|-------|----------|--------------|----|------------|--------------|-------------|
| 1 | Ellyn | Davidzon | 209-121-2166 | 3 | 2019-10-02 | 103-400-2288 | 1 |
| 2 | Kerry | Corey | 557-443-1462 | 2 | 2019-07-15 | 13.21 | 2 |
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`inv` table

| ID | date | amount | customer_id |
|----|------------|--------------|-------------|
| 1 | 2019-01-05 | 1456.76 | 3 |
| 2 | 2019-07-15 | 13.21 | 2 |
| 3 | 2019-10-02 | 103-400-2288 | 1 |

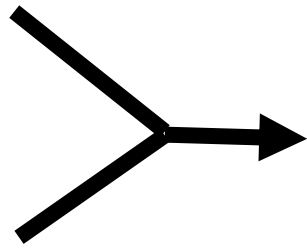
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| ID | fname | lname | phone | ID | date | amount | customer_id |
|----|-------|----------|--------------|----|------------|--------------|-------------|
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```
FROM cust
JOIN inv
ON cust.id = inv.customer_id
WHERE cust.id = 1
```

`cust` table

| ID | fname | lname | phone |
|----|-------|----------|--------------|
| 1 | Ellyn | Davidzon | 209-121-2166 |
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| 3 | Arny | Brendish | 103-400-2288 |



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| ID | date | amount | customer_id |
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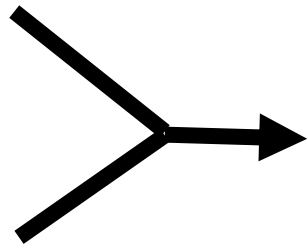
New Source Table

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|----|-------|----------|--------------|----|------------|--------------|-------------|
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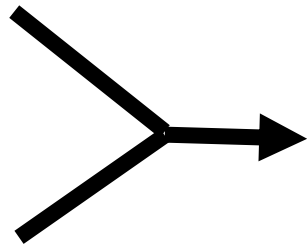
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New Source Table

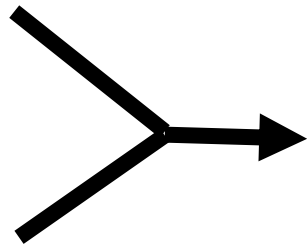
| ID | fname | lname | phone | ID | date | amount | customer_id |
|----|-------|----------|--------------|----|------------|--------------|-------------|
| 1 | Ellyn | Davidzon | 209-121-2166 | 3 | 2019-10-02 | 103-400-2288 | 1 |

```
SELECT cust.id, cust.lname, inv.id,  
       inv.date, inv.amount
```

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FROM   cust  
JOIN   inv  
ON     cust.id = inv.customer_id  
WHERE  cust.id = 1
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New Source Table

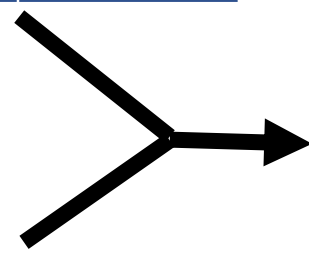
| ID | fname | lname | phone | ID | date | amount | customer_id |
|----|-------|----------|--------------|----|------------|--------------|-------------|
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SELECT cust.id, cust.lname, inv.id,
       inv.date, inv.amount }
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|----|------------|--------------|-------------|
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| 3 | 2019-10-02 | 103-400-2288 | 1 |



New Source Table

| ID | lname | ID | date | amount |
|----|----------|----|------------|--------------|
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| ID | fname | lname | phone |
|----|-------|----------|--------------|
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| 3 | Army | Brendish | 103-400-2288 |

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| ID | date | amount | customer_id |
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| 1 | 2019-01-05 | 1456.76 | 3 |
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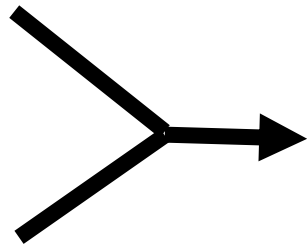
| lname | ID | date | amount |
|----------|----|------------|--------------|
| Davidzon | 3 | 2019-10-02 | 103-400-2288 |


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| ID | date | amount | customer_id |
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| 2 | 2019-07-15 | 13.21 | 2 |
| 3 | 2019-10-02 | 103-400-2288 | 1 |

Results Table

| ID | lname | ID | date | amount |
|----|----------|----|------------|--------------|
| 1 | Davidzon | 3 | 2019-10-02 | 103-400-2288 |