Giả sử có 2 bảng A và B có PK, FK nối đến nhau

* Inner join:

SELECT table\_name.field\_name FROM A

INNER JOIN B ON A.field\_name = B.field\_name;

* + Ví dụ: Có 2 bảng brands(id, name), products(id, name, price, quantity, brand\_id)

SELECT products.id, products.name, products.price, products.quantity, brands.name AS brand\_name FROM brands INNER JOIN products ON brands.id = products.brand\_id;

|  |  |
| --- | --- |
| brands | |
| id | name |
| 1 | brand 1 |
| 2 | brand 2 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| products | | | | |
| id | name | price | quantity | brand\_id |
| 1 | product 1 | 20 | 20 | 1 |
| 2 | product 2 | 15 | 15 | 2 |
| 3 | product 3 | 13 | 13 | 1 |
| 4 | product 4 | 10 | 10 |  |

brands inner join products

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| products.id | products.name | products.price | products.quantity | brands.name |
| 1 | product 1 | 20 | 20 | brand 1 |
| 2 | product 2 | 15 | 15 | brand 2 |
| 3 | product 3 | 13 | 13 | brand 1 |

* + Lưu ý
    - Khi inner join 2 bảng với nhau thường sẽ join qua PK, FK
    - Thứ tự các bảng không quan trọng
* LEFT JOIN

SELECT table\_name.field\_name FROM A LEFT JOIN B ON A.field\_name = B.field\_name;

* + Ví dụ: Có 2 bảng brands(id, name), products(id, name, price, quantity, brand\_id)

SELECT products.id, products.name, products.price, products.quantity, brands.name AS brand\_name FROM brands LEFT JOIN products ON brands.id = products.id;

|  |  |
| --- | --- |
| brands | |
| id | name |
| 1 | brand 1 |
| 2 | brand 2 |
| 3 | brand 3 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| products | | | | |
| id | name | price | quantity | brand\_id |
| 1 | product 1 | 20 | 20 | 1 |
| 2 | product 2 | 15 | 15 | 2 |
| 3 | product 3 | 13 | 13 | 1 |
| 4 | product 4 | 10 | 10 |  |

brands LEFT JOIN products

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| brands.name | products.id | products.name | products.price | products.quantity |
| brand 1 | 1 | product 1 | 20 | 20 |
| brand 1 | 3 | product 3 | 13 | 13 |
| brand 2 | 2 | product 2 | 15 | 15 |
| brand 3 |  |  |  |  |

* + Lưu ý:
    - Thứ tự các bảng là quan trọng
* RIGHT JOIN

SELECT table\_name.field\_name FROM A RIGHT JOIN B ON A.field\_name = B.field\_name;

* + Ví dụ: Có 2 bảng brands(id, name), products(id, name, price, quantity, brand\_id)

SELECT products.id, products.name, products.price, products.quantity, brands.name AS brand\_name FROM brands RIGHT JOIN products ON brands.id = products.id;

|  |  |
| --- | --- |
| brands | |
| id | name |
| 1 | brand 1 |
| 2 | brand 2 |
| 3 | brand 3 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| products | | | | |
| id | name | price | quantity | brand\_id |
| 1 | product 1 | 20 | 20 | 1 |
| 2 | product 2 | 15 | 15 | 2 |
| 3 | product 3 | 13 | 13 | 1 |
| 4 | product 4 | 10 | 10 |  |

brands RIGHT JOIN products

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| products.id | products.name | products.price | products.quantity | brands.name |
| 1 | product 1 | 20 | 20 | brand 1 |
| 2 | product 2 | 15 | 15 | brand 2 |
| 3 | product 3 | 13 | 13 | brand 1 |
| 4 | product 4 | 10 | 10 |  |

* + Lưu ý:
    - Thứ tự các bảng là quan trọng