INNER JOIN

```
SELECT s.exch, s.symbol, s.ymd, s.price_close, d.dividend
FROM stocks s
INNER JOIN
dividends d
ON s.symbol = d.symbol AND s.ymd = d.ymd;
```

LEFT OUTER JOIN

```
SELECT s.exch, s.symbol, s.ymd, s.price_close, d.dividend
FROM stocks s
LEFT OUTER JOIN
dividends d
ON s.symbol = d.symbol AND s.ymd = d.ymd
WHERE d.dividend IS NOT NULL;
```

RIGHT OUTER JOIN

```
SELECT s.exch, s.symbol, s.ymd, s.price_close, d.dividend
FROM stocks s
RIGHT OUTER JOIN
dividends d
ON s.symbol = d.symbol AND s.ymd = d.ymd;
```

FULL OUTER JOIN

```
SELECT s.exch, s.symbol, s.ymd, s.price_close, d.dividend
FROM stocks s
FULL OUTER JOIN
dividends d
ON s.symbol = d.symbol AND s.ymd = d.ymd;
```

LEFT SEMI JOIN

```
SELECT s.ymd, s.symbol, s.price_close
FROM stocks s
LEFT SEMI JOIN
dividends d
ON s.ymd = d.ymd AND s.symbol = d.symbol;
```

INEQUALITY JOIN

```
SELECT s.ymd, s.symbol, s.price_close
FROM stocks s LEFT SEMI JOIN dividends d
ON s.ymd > d.ymd;
```

```
SELECT s.ymd, s.symbol, s.price_close
FROM stocks s CROSS JOIN dividends d
WHERE s.ymd > d.ymd;
```

MULTI JOIN

--Same key. Only one MR job

```
SELECT a.val, b.val, c.val FROM a JOIN b ON (a.key = b.key1) JOIN c ON (c.key = b.key1)
```

--2 MR Job. The first map/reduce job joins a with b and the results are then joined with c in the second map/reduce job.

```
SELECT a.val, b.val, c.val FROM a JOIN b ON (a.key = b.key1) JOIN c ON (c.key = b.key2)
```