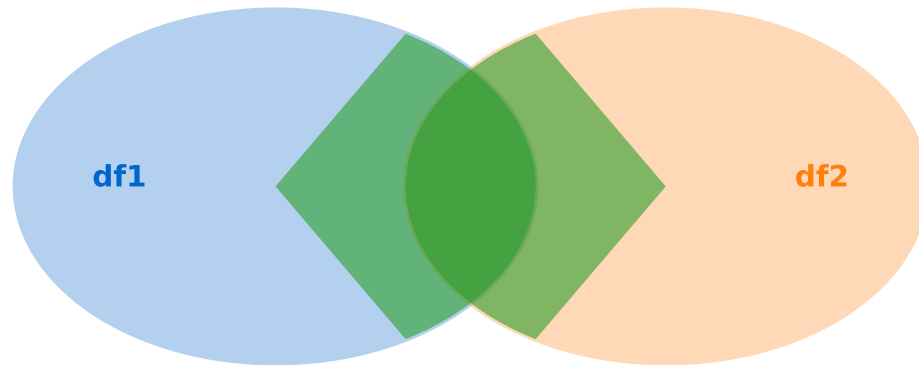


# Types of Merge Operations

## Inner Join

```
merge(df1, df2, how='inner')
```



*Only matching keys (intersection)*

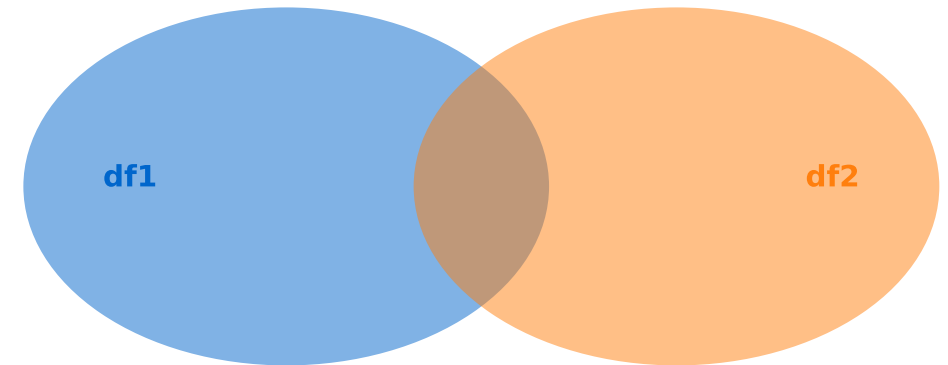
df1: A, B, C

df2: B, C, D

**Result: B, C**

## Outer Join (Full)

```
merge(df1, df2, how='outer')
```



*All keys from both (union)*

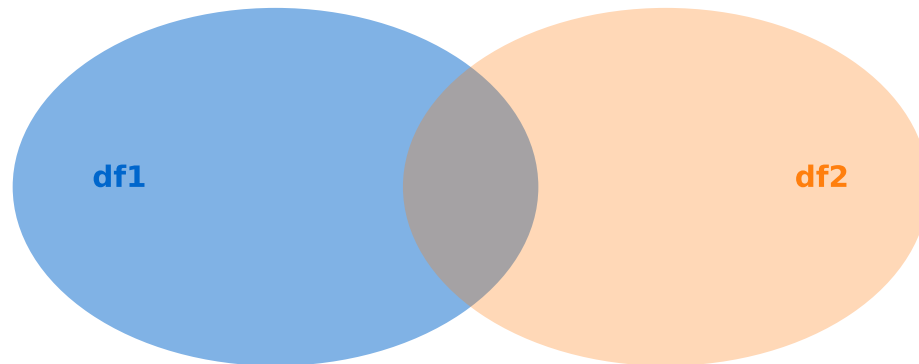
df1: A, B, C

df2: B, C, D

**Result: A, B, C, D**

## Left Join

```
merge(df1, df2, how='left')
```



*All keys from left + matches from right*

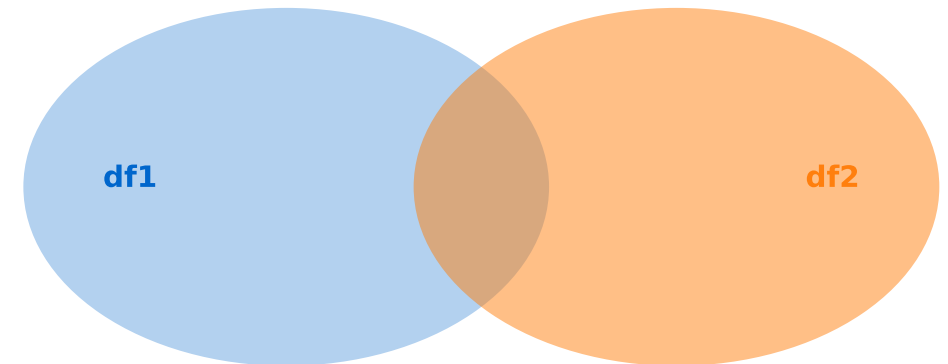
df1: A, B, C

df2: B, C, D

**Result: A, B, C**

## Right Join

```
merge(df1, df2, how='right')
```



*All keys from right + matches from left*

df1: A, B, C

df2: B, C, D

**Result: B, C, D**