Relational Data: Takeaways

by Dataquest Labs, Inc. - All rights reserved © 2020

Syntax

JOINING DATAFRAMES

• Combine two dataframes using an inner join:

```
sat_results %>%
inner_join(class_size, by = "DBN")
```

• Combine two dataframes using a left join:

```
sat_results %>%
left_join(class_size, by = "DBN")
```

• Combine two dataframes using a right join:

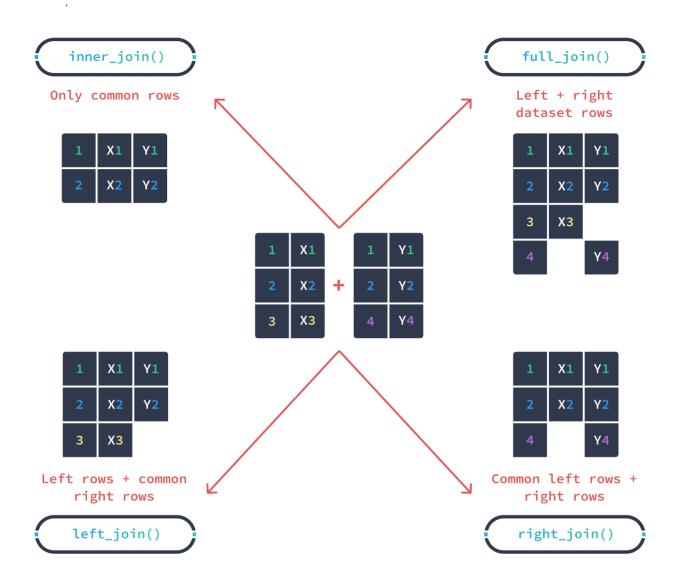
```
sat_results %>%
right_join(class_size, by = "DBN")
```

• Combine two dataframes using a full join:

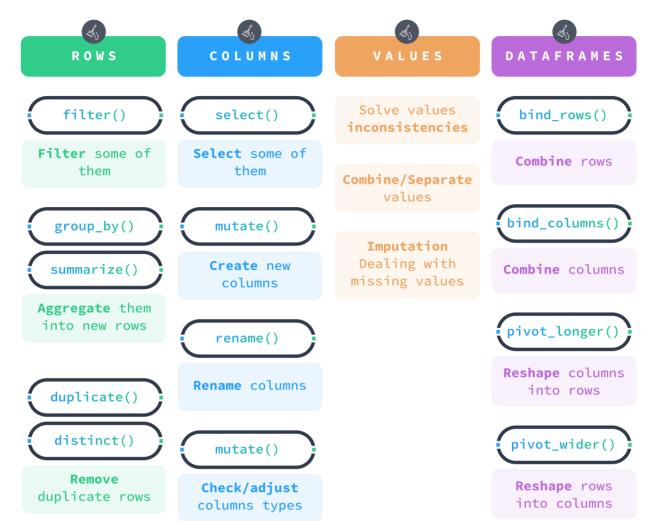
```
sat_results %>%
full_join(class_size, by = "DBN")
```

Concepts

- Relational data is data that has a relation to some data in another table.
- A key refers to the variable that connects pairs of tables.
 - Mutating joins add new variables to a dataframe based on matching observations in another dataframe.
 - Inner joins match pairs of variables in two dataframes if their values of the key are the same.
 - Outer joins keep observations that appear in at least one of the two tables you're combining. Outer joins can be divided into three types:
 - · Left joins
 - · Right joins
 - Full joins
- Performing a left join keeps all observations in the dataframe on the left and drops observations from the dataframe on the right that have no key match.
- Performing a right join keeps all observations in the dataframe on the right and drops observations from the dataframe on the left that have no key.
- Performing a full join keeps all observations from both dataframes and fills in missing variables with







Resources

• Cheat sheet for dplyr join functions



Takeaways by Dataquest Labs, Inc. - All rights reserved $\ensuremath{\texttt{©}}$ 2020