

Working with multiple tables

Simple queries will return data from a single table, but in practice it's helpful to combine multiple tables to analyze data properly

Select *
FROM happiness_scores;

Year	Country	region	happiness_score
2015	Albania	Eastern Europe	3,1575
2015	Algeria	North Africa	4,959
2015	Angola	Africa	4,033
2015	Argentina	South America	6,1594
2015	Armenia	Eastern Europe	4,350
2015	Australia	ANZ	7,284

Select * FROM country_stats

country	Continent	population	urban population
Albania	Europe	2854191	174 75.93

There are two ways to combine multiple tables for analysis:

- **JOIN**: adds related columns from one table to another, based on common columns
- **UNION**: stacks the rows from multiple tables with the same column structure

year	country	happiness - score	continent	population
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JOIN The continent and population columns were added using a JOIN, based on matching country column

Country	year	happiness - score
Albania	2013	4,059
Angola	2015	4,033
Albania	2016	4,655
Angola	2016	3,866

UNION the rows from two different tables with the same columns were stacked using a UNION