

Working With Dataset

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Maximum Marks	4 Marks

Understanding The Dataset

A dataset is a collection of data within a database.

Typically, datasets take on a tabular format consisting of rows and columns. Each column represents a specific variable, while each row corresponds to a specific value.

The data can be downloaded from the Links :

1. AirStats data on airports around the world
2. Circum - Airport Performance Reports
3. Resources Coverage data

DATA PREPARATION :

The screenshot displays the IBM Cognos Analytics interface. The top navigation bar includes the IBM logo and the text 'IBM Cognos Analytics with Watson'. Below this, the 'AirStats-DataPrep' dataset is selected. The main workspace shows a table with the following columns: Continent Name, Row Id, id, code, name, and continent. The table contains 9 rows of data, representing different continents and their corresponding airport statistics.

Continent Name	Row Id	id	code	name	continent
Europe	1	302672	AD	Andorra	EU
Asia	2	302618	AE	United Arab Emirates	AS
Asia	3	302619	AF	Afghanistan	AS
North America	4	302722	AG	Antigua and Barbuda	NA
North America	5	302723	AI	Anguilla	NA
Europe	6	302673	AL	Albania	EU
Asia	7	302620	AM	Armenia	AS
Africa	8	302556	AO	Angola	AF
Antarctica	9	302615	AQ	Antarctica	AN

JOINING OF TABLES

The screenshot shows the IBM Cognos Analytics with Watson interface. The top navigation bar includes the IBM logo and the text "AirStats-Data Prep". The left sidebar shows a "Data module" with a search bar and a list of files: "Navigation paths", "countries.csv", "regions.csv", and "airports.csv". The "regions.csv" file is selected. The main area displays the "Relationships" tab, showing a diagram of the data relationships. The diagram consists of three boxes: "countries.csv" at the top, "regions.csv" in the middle, and "airports.csv" at the bottom. They are connected by lines with cardinality indicators: "1" for countries.csv, "N" for regions.csv, and "N" for airports.csv. A "Diagram settings" panel on the right shows "Cardinality" and "Focus mode" options, and a "Degrees of separation: 1" slider.

EXPLORATION OF DATA

The screenshot shows the IBM Cognos Analytics with Watson interface in the "AirStats-Data Explor" view. The top navigation bar includes the IBM logo and the text "AirStats-Data Explor". The left sidebar shows a "Cards" panel with a "Continent Name" card and a "Data relationships" card. The "Continent Name" card displays a large number "7". The "Data relationships" card shows a diagram of the data relationships. The main area displays the "Summary" tab, showing a large number "7" and the text "Continent Name". The right sidebar shows the "Details" panel, which displays "The total number of results for Continent Name is 247."

