Rainfall\_analysis\_projectsummery

The provided SQL script initiates the creation of a database named "rainfall\_db" and a table named "rainfall\_dataset" to store information about rainfall in various districts. The dataset comprises columns representing district code, district name, actual and normal rainfall values for different seasons (South\_West, North\_East, Winter, and Hot\_Weather), as well as the total actual and normal rainfall. The script renames columns for consistency and imports data from a CSV file into the "rainfall\_dataset" table.

The subsequent queries analyze the dataset, computing the average rainfall across different regions for each season and identifying districts that received above-average total rainfall. The final query calculates the sum of actual and normal total rainfall along with their averages. The script demonstrates standard SQL commands for database and table manipulation, data import, and analytical queries.

This dataset and script are valuable for meteorologists, environmental scientists, and policymakers interested in understanding regional rainfall patterns. The queries provide insights into average and anomalous rainfall across districts, aiding in water resource management and climate-related decision-making. The user can further extend the analysis based on specific research or application requirements.