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Research Question –

Tutorial Presentation for Feedback

Date: 19 November 2025

University of Hertfordshire UH

Here is a sample of our dataset:

Our database represents the weather in the city of London from 1979 to 2020, which was provided by the Eurpean Climate Assessment(ECA). The database has 10 columns and 15,341 Rows. We will use `precipitation`(mm) and `date` columns.

	date	cloud_cover	sunshine	global_radiation	max_temp	mean_temp	min_temp	precipitation	pressure	snow_depth
	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>
1	19790101	2	7	52	2.3	-4.1	-7.5	0.4	101900	9
2	19790102	6	1.7	27	1.6	-2.6	-7.5	0	102530	8
3	19790103	5	0	13	1.3	-2.8	-7.2	0	102050	4
4	19790104	8	0	13	-0.3	-2.6	-6.5	0	100840	2
5	19790105	6	2	29	5.6	-0.8	-1.4	0	102250	1

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Dataset ID DS134

This dataset is interesting to us because, as newcomers to the city, we want to scientifically compare the data behind London's world-famous constant rains.

Independent Variable: `date` **==>** `Season` **(Nominal)** | **Dependent Variable:** `precipitation` **(Interval)**

Our Research Question is

Is there a difference in the mean of daily **precipitation** among the **seasons** in London from 1979 to 2020?

Our Research Hypotheses are

Null hypothesis (H_0):
There is **no difference** in the mean of daily precipitation among the seasons in London.

Alternative hypothesis (H_1):
There is **a difference** in the mean of daily precipitation among the seasons in London.