Group Name: A247   **Name of Student Presenting:**

Research Question –

Tutorial Presentation for Feedback

Date: 18/11/2024

University of
Hertfordshire **UH**

Dataset ID: **DS323 and melb_data.csv**

This dataset is interesting for a research project because it combines property details, sale prices, and locations, allowing us to study trends that can help with pricing, investment, and urban planning decisions.

	Suburb	Address	Rooms	Type	Price	Method	SellerG	Date	Distance	Postcode	Bedroom2	Bathroom	Car	Landsize	BuildingAr	YearBuilt	CouncilAre	Lattitude	Longtitude	Regionnan	Propertycount
2	Abbotsford	85 Turner St	2	h	1480000	S	Biggin	########	2.5	3067	2	1	1	202			Yarra	-37.7996	144.9984	Northern I	4019
3	Abbotsford	25 Bloomburg St	2	h	1035000	S	Biggin	4/2/2016	2.5	3067	2	1	0	156	79	1900	Yarra	-37.8079	144.9934	Northern I	4019
4	Abbotsford	5 Charles St	3	h	1465000	SP	Biggin	4/3/2017	2.5	3067	3	2	0	134	150	1900	Yarra	-37.8093	144.9944	Northern I	4019
5	Abbotsford	40 Federation La	3	h	850000	PI	Biggin	4/3/2017	2.5	3067	3	2	1	94			Yarra	-37.7969	144.9969	Northern I	4019
6	Abbotsford	55a Park St	4	h	1600000	VB	Nelson	4/6/2016	2.5	3067	3	1	2	120	142	2014	Yarra	-37.8072	144.9941	Northern I	4019
7	Abbotsford	129 Charles St	2	h	941000	S	Jellis	7/5/2016	2.5	3067	2	1	0	181			Yarra	-37.8041	144.9953	Northern I	4019
8	Abbotsford	124 Yarra St	3	h	1876000	S	Nelson	7/5/2016	2.5	3067	4	2	0	245	210	1910	Yarra	-37.8024	144.9993	Northern I	4019
9	Abbotsford	98 Charles St	2	h	1636000	S	Nelson	########	2.5	3067	2	1	2	256	107	1890	Yarra	-37.806	144.9954	Northern I	4019
10	Abbotsford	6/241 Nicholson St	1	u	300000	S	Biggin	########	2.5	3067	1	1	1	0			Yarra	-37.8008	144.9973	Northern I	4019
11	Abbotsford	10 Valiant St	2	h	1097000	S	Biggin	########	2.5	3067	3	1	2	220	75	1900	Yarra	-37.801	144.9989	Northern I	4019
12	Abbotsford	411/8 Grosvenor St	2	u	700000	VB	Jellis	########	2.5	3067	2	2	1	0			Yarra	-37.811	145.0067	Northern I	4019
13	Abbotsford	40 Nicholson St	3	h	1350000	VB	Nelson	########	2.5	3067	3	2	2	214	190	2005	Yarra	-37.8085	144.9964	Northern I	4019
14	Abbotsford	123/56 Nicholson St	2	u	750000	S	Biggin	########	2.5	3067	2	2	1	0	94	2009	Yarra	-37.8078	144.9965	Northern I	4019
15	Abbotsford	45 William St	2	h	1172500	S	Biggin	13/08/201	2.5	3067	2	1	1	195			Yarra	-37.8084	144.9973	Northern I	4019
16	Abbotsford	7/20 Abbotsford St	1	u	441000	SP	Greg	14/05/201	2.5	3067	1	1	1	0			Yarra	-37.8016	144.9988	Northern I	4019

Template 3: Nominal vs Nominal

This template compares the proportions of a nominal dependent variable across categories of a nominal independent variable.

Example Variables:

Independent variable: Address (Nominal: Urban, Suburban, Rural)

Dependent variable: Sale Price Category (Nominal: Above $200k, Below $200k)

Research Question:

"Is there a difference in the proportions of properties sold above $200k between urban, suburban, and rural locations?"

This is testing whether the proportion of high-priced properties (above $200k) differs by location type (urban, suburban, rural).

Null and Alternative Hypotheses:

1. **Null Hypothesis (H_0):**
   There is no difference in the proportions of properties sold above $200k between urban, suburban, and rural locations.
   This means that location type (urban, suburban, rural) does not influence the proportion of properties sold above $200k.

2. **Alternative Hypothesis (H_1):**
   There is a difference in the proportions of properties sold above $200k between urban, suburban, and rural locations.
   This suggests that the proportion of high-priced properties sold differs by location.