

## 1. Duration of Stay

=H2 - G2 i.e. CheckOutDate – CheckInDate

The screenshot shows a Microsoft Excel spreadsheet titled "Hotel\_data\_2024". The formula bar at the top displays the formula  $=H2-G2$ . The main area contains a large data grid with 15 columns labeled A through P. Column A is "BookingID", B is "DateID", C is "RoomID", D is "CustomerID", E is "BranchID", F is "TotalAmount", G is "CheckinDate", H is "CheckoutDate", I is "DurationofStay", J is "Purpose", K is "Stay\_Type", and L through P are blank headers. The data grid has approximately 30 rows of booking information. The status bar at the bottom shows "Ready", "Accessibility: Good to go", "24°C Partly cloudy", and the date "25-10-2025".

BookingID	DateID	RoomID	CustomerID	BranchID	TotalAmount	CheckinDate	CheckoutDate	DurationofStay	Purpose	Stay_Type	L	M	N	O	P
R0001	D20240723	R0005	C0773	H0001	14359	23/07/2024	27/07/2024	4	Business	Long Stay					
B0002	D20240526	R0008	C0829	H0019	4287	26/05/2024	28/05/2024	2	Conference	Medium Stay					
B0003	D20240217	R0009	C0334	H0011	8912	17/02/2024	18/02/2024	1	Conference	Short Stay					
B0004	D20240820	R0010	C0982	H0010	6490	20/08/2024	23/08/2024	3	Wedding	Long Stay					
B0005	D20240709	R0009	C0422	H0002	12293	09/07/2024	10/07/2024	1	Business	Short Stay					
B0006	D20240620	R0006	C0399	H0002	12646	20/06/2024	22/06/2024	2	Business	Medium Stay					
B0007	D20240719	R0002	C0476	H0007	12141	19/07/2024	23/07/2024	4	Wedding	Long Stay					
B0008	D20240522	R0008	C0889	H0008	4429	22/05/2024	25/05/2024	3	Wedding	Long Stay					
B0009	D20241028	R0004	C0103	H0012	18422	28/10/2024	30/10/2024	2	Wedding	Medium Stay					
B0010	D20240324	R0003	C0412	H0009	16354	24/03/2024	27/03/2024	3	Conference	Long Stay					
B0011	D20240916	R0003	C0838	H0012	19783	16/09/2024	17/09/2024	1	Wedding	Short Stay					
B0012	D20240510	R0007	C0205	H0011	11882	10/05/2024	14/05/2024	4	Conference	Long Stay					
B0013	D20240731	R0010	C0098	H0010	13815	31/07/2024	03/08/2024	3	Business	Long Stay					
B0014	D20240530	R0004	C0033	H0012	6816	30/05/2024	02/06/2024	3	Conference	Long Stay					
B0015	D20241228	R0010	C0305	H0013	16938	28/12/2024	30/12/2024	2	Vacation	Medium Stay					
B0016	D20241212	R0008	C0172	H0008	6478	12/12/2024	17/12/2024	5	Vacation	Long Stay					
B0017	D20240828	R0002	C0843	H0002	5885	28/08/2024	01/09/2024	4	Vacation	Long Stay					
B0018	D20241105	R0004	C0066	H0007	18378	05/11/2024	09/11/2024	4	Conference	Long Stay					
B0019	D20240307	R0007	C0474	H0008	13125	07/03/2024	10/03/2024	3	Conference	Long Stay					
B0020	D20240119	R0003	C0569	H0006	9035	19/01/2024	23/01/2024	4	Conference	Long Stay					
B0021	D20240712	R0003	C0404	H0014	14641	12/07/2024	16/07/2024	4	Vacation	Long Stay					
B0022	D20240425	R0010	C0076	H0002	3406	25/04/2024	29/04/2024	4	Conference	Long Stay					
B0023	D20241017	R0010	C0658	H0011	18534	17/10/2024	20/10/2024	3	Vacation	Long Stay					
B0024	D20240113	R0001	C0753	H0030	15817	13/01/2024	18/01/2024	5	Business	Long Stay					

## 2. Stay Type

```
=SWITCH(TRIM(UPPER(J2)),
"BUSINESS", "Short Stay",
"CONFERENCE", "Medium Stay",
"VACATION", "Long Stay",
"HOLIDAY", "Long Stay",
"V", "Leisure",
"UNKNOWN", "Unknown",
"Other")
```

The screenshot shows a Microsoft Excel interface with the following details:

- Formula Bar:** Displays the formula `=SWITCH(TRIM(UPPER(J2)), "BUSINESS", "Short Stay", "CONFERENCE", "Medium Stay", "VACATION", "Long Stay", "HOLIDAY", "Long Stay", "V", "Leisure", "UNKNOWN", "Unknown", "Other")`.
- Table:** A data table with columns labeled A through K. Column K is titled **Stay\_Type**. The data includes rows from 1 to 25, with some rows being merged.

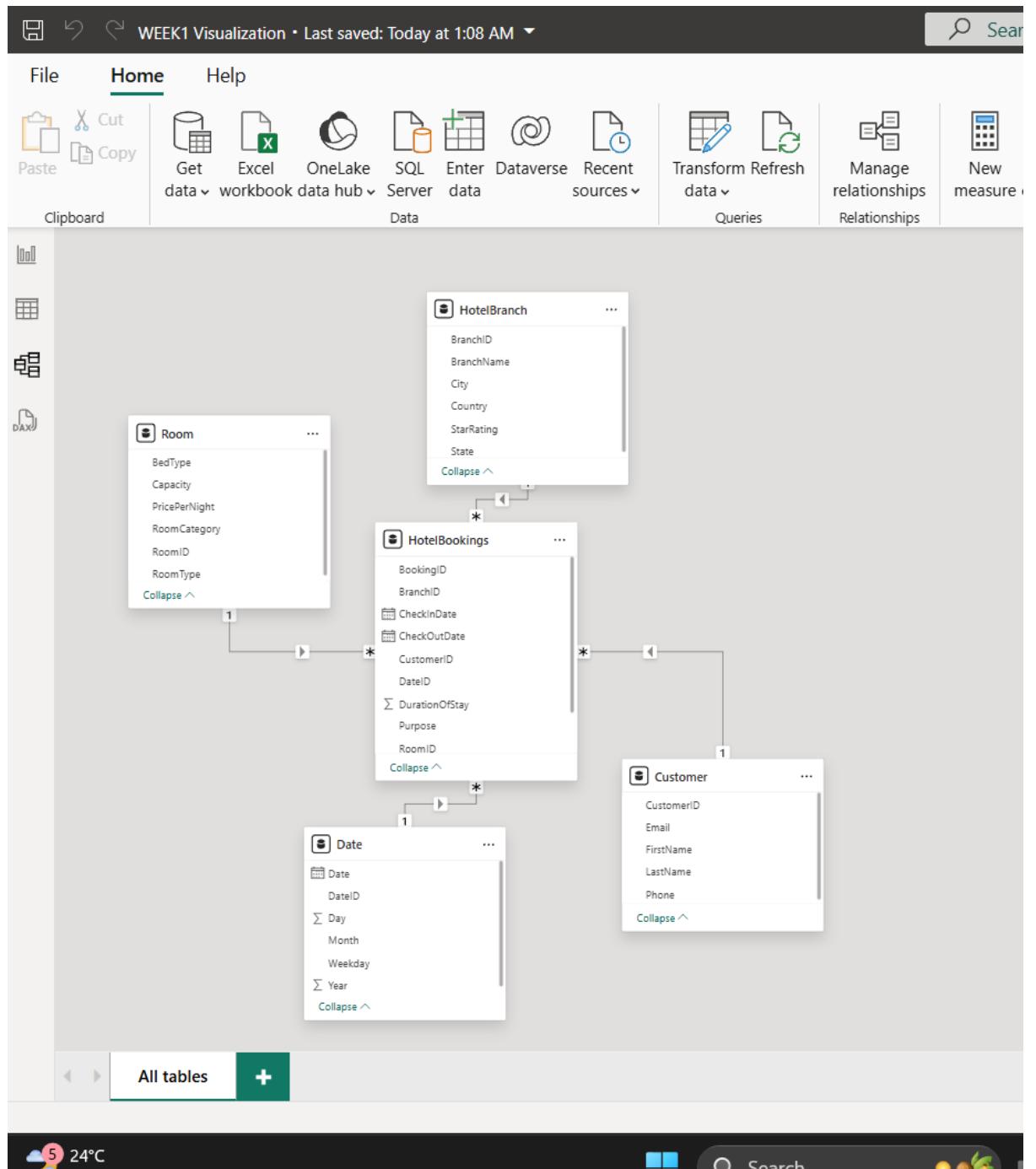
	A	B	C	D	E	F	G	H	I	J	K
1	BookingID	DateID	RoomID	CustomerID	BranchID	TotalAmount	CheckinDate	CheckoutDate	DurationOfStay	Purpose	Stay_Type
2	B0001	D20240723	R0005	C0773	H0001	₹ 14359	23/07/2024	27/07/2024	4	Business	Short Stay
3	B0002	D20240526	R0008	C0829	H0019	₹ 4287	26/05/2024	28/05/2024	2	Conference	Medium Stay
4	B0003	D20240217	R0009	C0334	H0011	₹ 8912	17/02/2024	18/02/2024	1	Conference	Medium Stay
5	B0004	D20240820	R0010	C0982	H0010	₹ 6490	20/08/2024	23/08/2024	3	Wedding	Other
6	B0005	D20240709	R0009	C0422	H0002	₹ 12293	09/07/2024	10/07/2024	1	Business	Short Stay
7	B0006	D20240620	R0006	C0399	H0002	₹ 12646	20/06/2024	22/06/2024	2	Business	Short Stay
8	B0007	D20240719	R0002	C0476	H0007	₹ 12141	19/07/2024	23/07/2024	4	Wedding	Other
9	B0008	D20240522	R0008	C0889	H0008	₹ 4429	22/05/2024	25/05/2024	3	Wedding	Other
10	B0009	D20241028	R0004	C0103	H0012	₹ 18422	28/10/2024	30/10/2024	2	Wedding	Other
11	B0010	D20240324	R0003	C0412	H0009	₹ 16354	24/03/2024	27/03/2024	3	Conference	Medium Stay
12	B0011	D20240916	R0003	C0838	H0012	₹ 19783	16/09/2024	17/09/2024	1	Wedding	Other
13	B0012	D20240510	R0007	C0205	H0011	₹ 11882	10/05/2024	14/05/2024	4	Conference	Medium Stay
14	B0013	D20240731	R0010	C0098	H0010	₹ 13815	31/07/2024	03/08/2024	3	Business	Short Stay
15	B0014	D20240530	R0004	C0033	H0012	₹ 6816	30/05/2024	02/06/2024	3	Conference	Medium Stay
16	B0015	D20241228	R0010	C0305	H0013	₹ 16938	28/12/2024	30/12/2024	2	Vacation	Long Stay
17	B0016	D20241212	R0008	C0172	H0008	₹ 6478	12/12/2024	17/12/2024	5	Vacation	Long Stay
18	B0017	D20240828	R0002	C0843	H0002	₹ 5885	28/08/2024	01/09/2024	4	Vacation	Long Stay
19	B0018	D20241105	R0004	C0066	H0007	₹ 18378	05/11/2024	09/11/2024	4	Conference	Medium Stay
20	B0019	D20240307	R0007	C0474	H0008	₹ 13125	07/03/2024	10/03/2024	3	Conference	Medium Stay
21	B0020	D20240119	R0003	C0569	H0003	₹ 9035	19/01/2024	23/01/2024	4	Conference	Medium Stay
22	B0021	D20240712	R0003	C0404	H0014	₹ 14641	12/07/2024	16/07/2024	4	Vacation	Long Stay
23	B0022	D20240425	R0010	C0076	H0002	₹ 3406	25/04/2024	29/04/2024	4	Conference	Medium Stay
24	B0023	D20241017	R0010	C0658	H0011	₹ 18534	17/10/2024	20/10/2024	3	Vacation	Long Stay
25	B0024	D20240113	R0001	C0753	H0001	₹ 15812	13/01/2024	18/01/2024	5	Business	Short Stay

### **3. Room Category:**

```
=SWITCH(B2,  
"Suite", "Premium",  
"Premium", "Premium",  
"Deluxe", "Mid-range",  
"Executive", "Mid-range",  
"Standard", "Budget")
```

## Data Modeling:

### Entity-Relationship Diagram:



## VISUALISATION

