

1. Duration of Stay
=H2 - G2 i.e. CheckOutDate – CheckInDate

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Formula Bar: =H2-G2

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	BookingID	DateID	RoomID	CustomerID	BranchID	TotalAmount	CheckInDate	CheckOutDate	DurationOfStay	Purpose	Stay_Type					
1	B0001	D20240723	R0005	C0773	H0001	₹ 14359	23/07/2024	27/07/2024	4	Business	Long Stay					
2	B0002	D20240526	R0008	C0829	H0019	₹ 4287	26/05/2024	28/05/2024	2	Conference	Medium Stay					
3	B0003	D20240217	R0009	C0334	H0011	₹ 8912	17/02/2024	18/02/2024	1	Conference	Short Stay					
4	B0004	D20240820	R0010	C0982	H0010	₹ 6490	20/08/2024	23/08/2024	3	Wedding	Long Stay					
5	B0005	D20240709	R0009	C0422	H0002	₹ 12293	09/07/2024	10/07/2024	1	Business	Short Stay					
6	B0006	D20240620	R0006	C0399	H0002	₹ 12646	20/06/2024	22/06/2024	2	Business	Medium Stay					
7	B0007	D20240719	R0002	C0476	H0007	₹ 12141	19/07/2024	23/07/2024	4	Wedding	Long Stay					
8	B0008	D20240522	R0008	C0889	H0008	₹ 4429	22/05/2024	25/05/2024	3	Wedding	Long Stay					
9	B0009	D20241028	R0004	C0103	H0012	₹ 18422	28/10/2024	30/10/2024	2	Wedding	Medium Stay					
10	B0010	D20240324	R0003	C0412	H0009	₹ 16354	24/03/2024	27/03/2024	3	Conference	Long Stay					
11	B0011	D20240916	R0003	C0838	H0012	₹ 19783	16/09/2024	17/09/2024	1	Wedding	Short Stay					
12	B0012	D20240510	R0007	C0205	H0011	₹ 11882	10/05/2024	14/05/2024	4	Conference	Long Stay					
13	B0013	D20240731	R0010	C0098	H0010	₹ 13815	31/07/2024	03/08/2024	3	Business	Long Stay					
14	B0014	D20240530	R0004	C0033	H0012	₹ 6816	30/05/2024	02/06/2024	3	Conference	Long Stay					
15	B0015	D20241228	R0010	C0305	H0013	₹ 16938	28/12/2024	30/12/2024	2	Vacation	Medium Stay					
16	B0016	D20241212	R0008	C0172	H0008	₹ 6478	12/12/2024	17/12/2024	5	Vacation	Long Stay					
17	B0017	D20240828	R0002	C0843	H0002	₹ 5885	28/08/2024	01/09/2024	4	Vacation	Long Stay					
18	B0018	D20241105	R0004	C0066	H0007	₹ 18378	05/11/2024	09/11/2024	4	Conference	Long Stay					
19	B0019	D20240307	R0007	C0474	H0008	₹ 13125	07/03/2024	10/03/2024	3	Conference	Long Stay					
20	B0020	D20240119	R0003	C0569	H0006	₹ 9035	19/01/2024	23/01/2024	4	Conference	Long Stay					
21	B0021	D20240712	R0003	C0404	H0014	₹ 14641	12/07/2024	16/07/2024	4	Vacation	Long Stay					
22	B0022	D20240425	R0010	C0076	H0002	₹ 3406	25/04/2024	29/04/2024	4	Conference	Long Stay					
23	B0023	D20241017	R0010	C0658	H0011	₹ 18534	17/10/2024	20/10/2024	3	Vacation	Long Stay					
24	B0024	D20240113	R0001	C0753	H0020	₹ 15817	13/01/2024	18/01/2024	5	Business	Long Stay					

HotelBookings | Date | Room | Customer | HotelBranch | +

Ready | Accessibility: Good to go | 24°C | Partly cloudy | Search | ENG | IN | 01:15 | 25-10-2023

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 an Excel spreadsheet titled "Hotel_data_2024". The formula bar displays the following formula for cell K2:

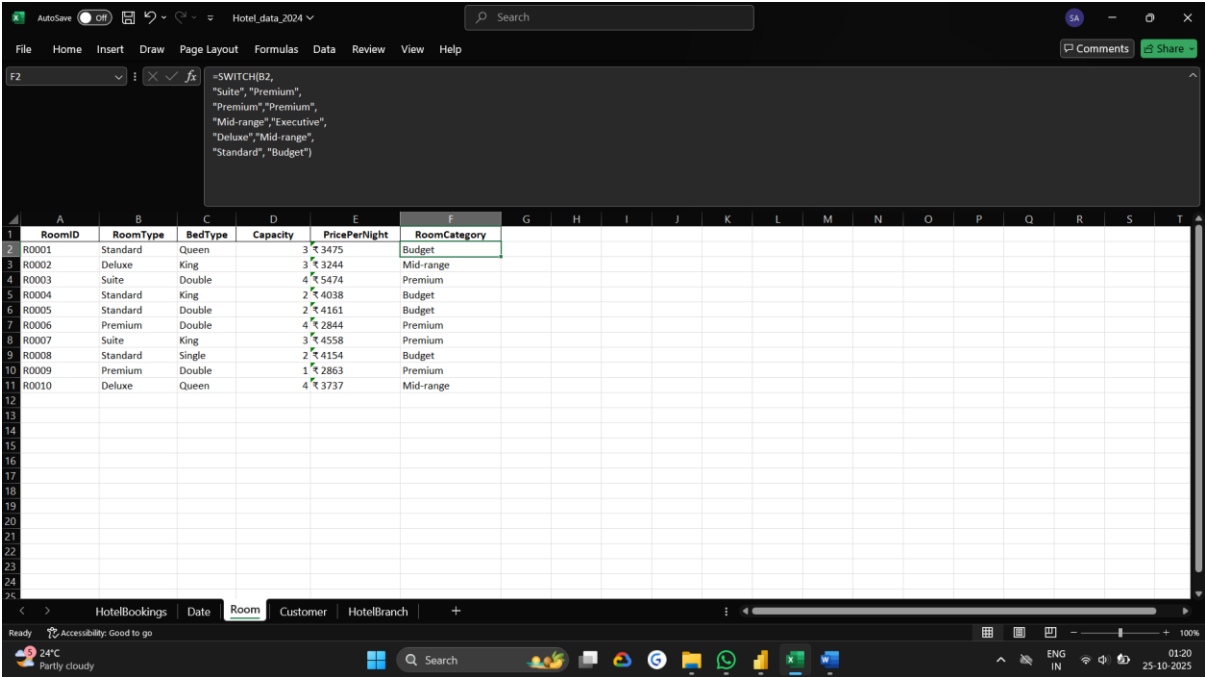
```
=SWITCH(TRIM(UPPER(J2)),  
"BUSINESS", "Short Stay",  
"CONFERENCE", "Medium Stay",  
"VACATION", "Long Stay",  
"HOLIDAY", "Long Stay",  
"V", "Leisure",  
"UNKNOWN", "Unknown",  
"Other")
```

The spreadsheet contains a table with the following columns: BookingID, DateID, RoomID, CustomerID, BranchID, TotalAmount, CheckInDate, CheckOutDate, DurationOfStay, Purpose, and Stay Type. The data is organized into rows, with the first row (row 2) showing a booking for a "Short Stay" (Business purpose). The Stay Type column is calculated based on the Purpose column using the SWITCH formula.

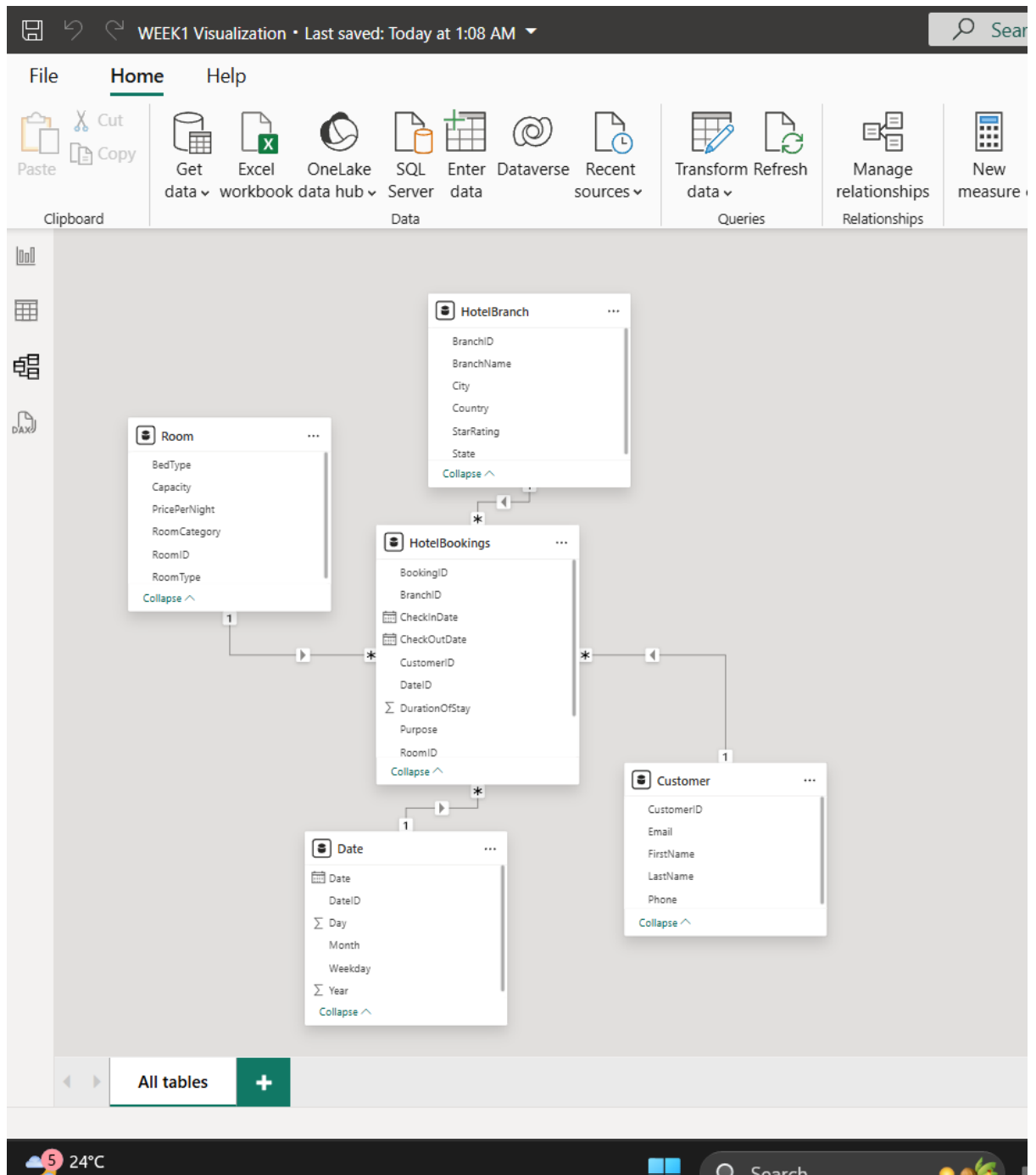
BookingID	DateID	RoomID	CustomerID	BranchID	TotalAmount	CheckInDate	CheckOutDate	DurationOfStay	Purpose	Stay Type
B0001	D20240723	R0005	C0773	H0001	₹ 14359	23/07/2024	27/07/2024	4	Business	Short Stay
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B0015	D20241228	R0010	C0305	H0013	₹ 16938	28/12/2024	30/12/2024	2	Vacation	Long Stay
B0016	D20241212	R0008	C0172	H0008	₹ 6478	12/12/2024	17/12/2024	5	Vacation	Long Stay
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B0018	D20241105	R0004	C0066	H0007	₹ 18378	05/11/2024	09/11/2024	4	Conference	Medium Stay
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B0024	D20240113	R0001	C0753	H0010	₹ 15817	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

