

Module 2: Custom Columns, Pivot Table and Master Data

1. Created Duration Details sheet using Customer_ID, Checkin_Date, Checkout_Date and Duration

The screenshot shows a Microsoft Excel spreadsheet titled "hotel_booking_dataset - Excel". The table has four columns: Customer_ID, Checkin_Date, Checkout_Date, and Duration. The data consists of 39 rows of customer booking information. The "Duration" column contains numerical values ranging from 1 to 13. The "Checkin_Date" and "Checkout_Date" columns show dates in YYYY-MM-DD format. The "Customer_ID" column lists unique identifiers for each booking.

Customer_ID	Checkin_Date	Checkout_Date	Duration
2	2025-10-30	2025-11-08	9
3	2025-09-15	2025-09-17	13
4	2025-03-13	2025-03-26	13
5	2025-05-02	2025-05-04	2
6	2024-02-26	2024-03-08	10
7	2025-08-23	2025-08-24	1
8	2025-04-09	2025-04-21	12
9	2025-10-22	2025-10-25	3
10	2025-12-15	2025-12-16	1
11	2025-06-07	2025-06-10	3
12	2025-04-12	2025-04-16	4
13	2025-07-03	2025-07-03	5
14	2025-08-18	2025-08-28	10
15	2025-10-15	2025-10-22	7
16	2025-02-09	2025-02-09	5
17	2025-06-04	2025-06-05	14
18	2025-05-15	2025-05-18	5
19	2025-11-28	2025-11-29	1
20	2024-07-26	2024-08-02	7
21	2025-05-17	2025-05-28	11
22	2024-06-24	2024-06-28	4
23	2025-12-17	2025-12-26	9
24	2025-07-08	2025-07-10	2
25	2025-07-10	2025-07-12	2
26	2025-05-19	2025-05-25	6
27	2025-11-04	2025-11-12	8
28	2024-08-18	2024-08-30	12
29	2025-11-08	2025-11-13	5
30	2025-02-12	2025-02-13	1
31	2025-06-29	2025-07-02	3
32	2025-06-16	2025-06-21	5

2. Created Stay_Date column using Custom Column in the Power Query Editor

The screenshot shows the Microsoft Power Query Editor interface. A table named "Table1" is being processed. In the "Applied Steps" pane, a step named "Expanded StayDate" is highlighted, which includes "Grouped Rows", "Renamed Columns", and "Changed Type1". The main area shows the table with a new column "StayDate" added, which is a list column containing dates. The "Properties" pane shows the table name as "Table1". The status bar at the bottom indicates "PREVIEW DOWNLOADED At 01:59 PM" and "29/09/2025 23:59:59".

Customer_ID	Checkin_Date	Checkout_Date	Duration	StayDate
1	2025-10-20	2025-10-25	5	2025-10-20
2	2025-10-20	2025-10-25	5	2025-10-20
3	2025-10-20	2025-10-25	5	2025-10-20
4	2025-10-20	2025-10-25	5	2025-10-20
5	2025-10-20	2025-10-25	5	2025-10-20
6	2025-10-20	2025-10-25	5	2025-10-20
7	2025-10-20	2025-10-25	5	2025-10-20
8	2025-10-20	2025-10-25	5	2025-10-20
9	2025-10-20	2025-10-25	5	2025-10-20
10	2025-09-15	2025-09-20	5	2025-09-15
11	2025-09-15	2025-09-20	5	2025-09-15
12	2025-09-15	2025-09-20	5	2025-09-15
13	2025-09-15	2025-09-20	5	2025-09-15
14	2025-09-15	2025-09-20	5	2025-09-15
15	2025-09-15	2025-09-20	5	2025-09-15
16	2025-09-15	2025-09-20	5	2025-09-15
17	2025-09-15	2025-09-20	5	2025-09-15
18	2025-09-15	2025-09-20	5	2025-09-15
19	2025-09-15	2025-09-20	5	2025-09-15
20	2025-09-15	2025-09-20	5	2025-09-15
21	2025-09-15	2025-09-20	5	2025-09-15
22	2025-09-15	2025-09-20	5	2025-09-15
23	2025-09-15	2025-09-20	5	2025-09-15
24	2025-09-15	2025-09-20	5	2025-09-15
25	2025-09-15	2025-09-20	5	2025-09-15
26	2025-09-15	2025-09-20	5	2025-09-15
27	2025-09-15	2025-09-20	5	2025-09-15
28	2025-09-15	2025-09-20	5	2025-09-15
29	2025-09-15	2025-09-20	5	2025-09-15
30	2025-09-15	2025-09-20	5	2025-09-15
31	2025-09-15	2025-09-20	5	2025-09-15
32	2025-09-15	2025-09-20	5	2025-09-15
33	2025-09-15	2025-09-20	5	2025-09-15
34	2025-09-15	2025-09-20	5	2025-09-15
35	2025-09-15	2025-09-20	5	2025-09-15
36	2025-09-15	2025-09-20	5	2025-09-15
37	2025-09-15	2025-09-20	5	2025-09-15
38	2025-09-15	2025-09-20	5	2025-09-15
39	2025-09-15	2025-09-20	5	2025-09-15

3. Create the Rooms_Booked column using the Group By function in the Power Query Editor

The screenshot shows the Power Query Editor interface with the following details:

- Query Settings:** The query is named "Table1".
- Applied Steps:** The last step applied was "Renamed Columns".
- Transform ribbon:** The "Data Type" tab is selected.
- Table View:** The table contains two columns: "StayDate" and "RoomBooked".
- Content:** The "RoomBooked" column contains numerical values ranging from 17 to 64.

4. Changed the data type of Stay_Date column from Text to Date

The screenshot shows the Power Query Editor interface with the following details:

- Query Settings:** The query is named "Table1".
- Applied Steps:** The last step applied was "Changed Type".
- Transform ribbon:** The "Data Type" tab is selected.
- Table View:** The table contains two columns: "StayDate" and "RoomBooked".
- Content:** The "StayDate" column contains dates in the format DD-MM-YYYY, and the "RoomBooked" column contains numerical values ranging from 17 to 64.

5. Created Pivot Table using the Stay_Date and Rooms_Booked Columns from the Rooms Booked sheet to fetch the Yealy & Monthly Bookings Data

PivotTable Fields

- Choose fields to add to report:
- Search: StayDate, RoomBooked, Months (StayDate), Quarters (StayDate), Years (StayDate)
- More Tables...

	Sum of Rooms Booked
2024	2545
Feb	53
Mar	41
Apr	108
May	164
Jun	135
Jul	145
Aug	214
Sep	388
Oct	412
Nov	439
Dec	446
2025	12020
Jan	484
Feb	456
Mar	581
Apr	712
May	978
Jun	708
Jul	853
Aug	1045
Sep	1207
Oct	1454
Nov	1739
Dec	1593
2026	137
Jan	137
Grand Total	14702

6. Created the Master Data sheet with Month, Day_Count, Rooms_Available, Rooms_Sold and Occupancy_% columns

Master Data

Month	Day_Count	Rooms_Available	Rooms_Sold	Occupancy %
01-Feb-24	29	12180	53	0.44
01-Mar-24	31	13020	41	0.31
01-Apr-24	30	12600	108	0.86
01-May-24	31	13020	164	1.26
01-Jun-24	30	12600	135	1.07
01-Jul-24	31	13020	145	1.11
01-Aug-24	31	13020	214	1.64
01-Sep-24	30	12600	388	3.08
01-Oct-24	31	13020	412	3.16
01-Nov-24	30	12600	439	3.48
01-Dec-24	31	13020	446	3.43
01-Jan-25	31	13020	484	3.72
01-Feb-25	28	11760	456	3.88
01-Mar-25	31	13020	681	5.23
01-Apr-25	30	12600	732	5.81
01-May-25	31	13020	978	7.51
01-Jun-25	30	12600	798	6.33
01-Jul-25	31	13020	853	6.55
01-Aug-25	31	13020	1045	8.03
01-Sep-25	30	12600	1207	9.58
01-Oct-25	31	13020	1454	11.17
01-Nov-25	30	12600	1739	13.80
01-Dec-25	31	13020	1595	12.24
01-Jan-26	31	13020	137	1.05