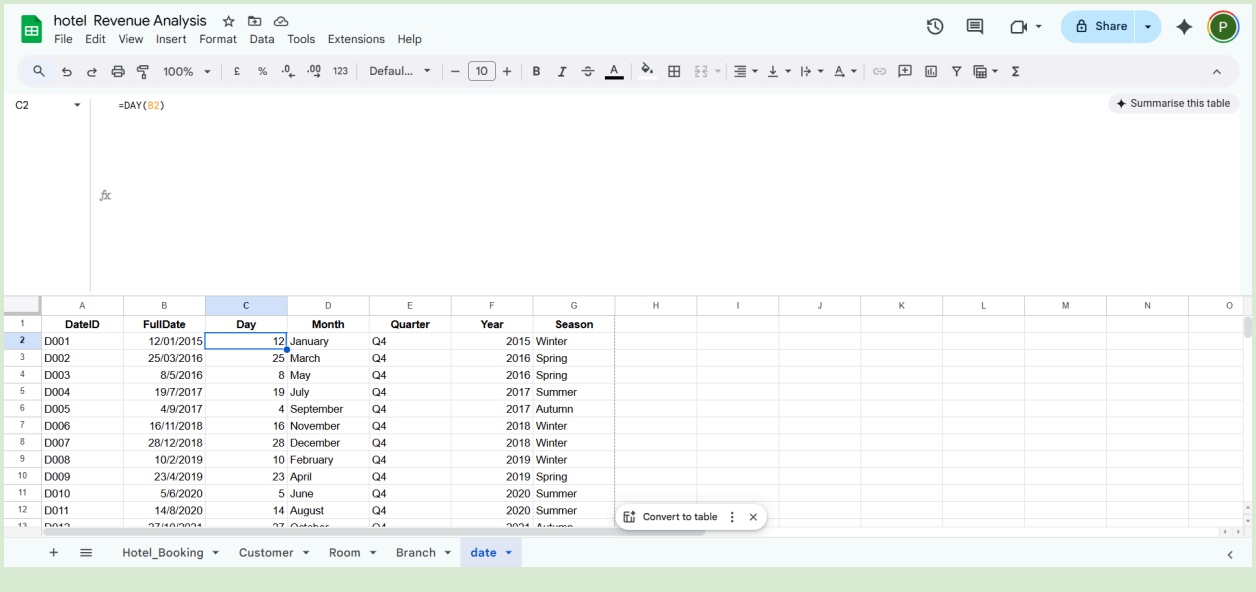
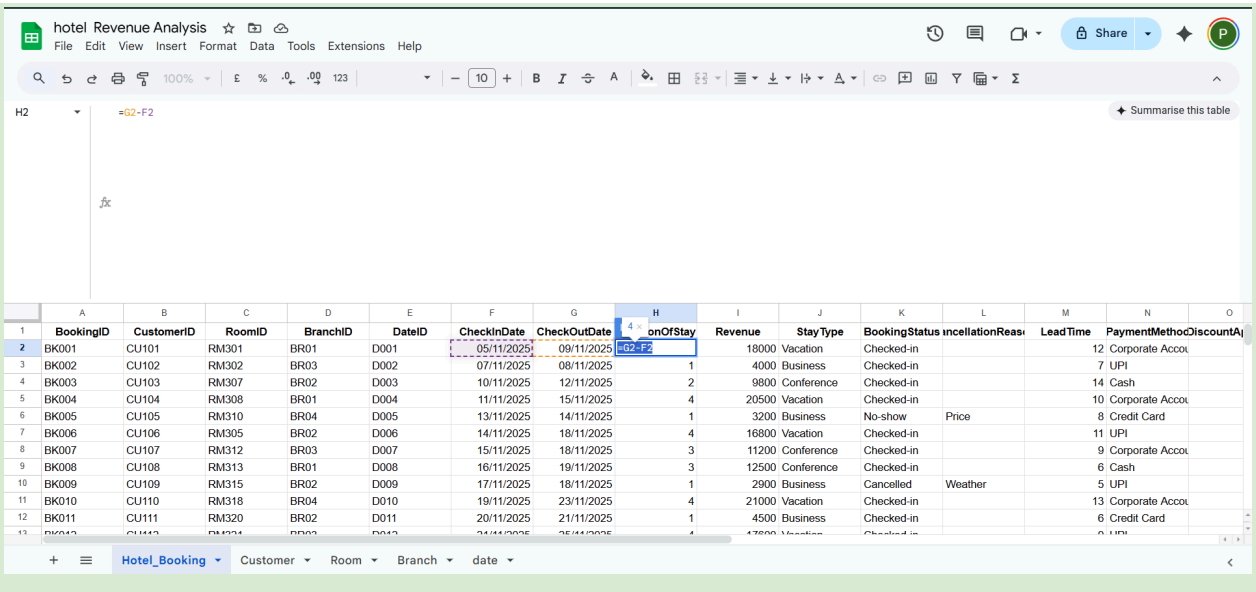
Module 1

Tables and sheets:



DateID	FullDate	Day	Month	Quarter	Year	Season
D001	12/01/2015	12	January	Q4	2015	Winter
D002	25/03/2016	25	March	Q4	2016	Spring
D003	8/5/2016	8	May	Q4	2016	Spring
D004	19/7/2017	19	July	Q4	2017	Summer
D005	4/9/2017	4	September	Q4	2017	Autumn
D006	16/11/2018	16	November	Q4	2018	Winter
D007	28/12/2018	28	December	Q4	2018	Winter
D008	10/2/2019	10	February	Q4	2019	Winter
D009	23/4/2019	23	April	Q4	2019	Spring
D010	5/6/2020	5	June	Q4	2020	Summer
D011	14/8/2020	14	August	Q4	2020	Summer



BookingID	CustomerID	RoomID	BranchID	DateID	CheckInDate	CheckOutDate	onOfStay	Revenue	StayType	BookingStatus	ncellationReas	LeadTime	PaymentMethod	DiscountA
BK001	CU101	RM301	BR01	D001	05/11/2025	09/11/2025	=G2-F2	18000	Vacation	Checked-in		12	Corporate Accou	
BK002	CU102	RM302	BR03	D002	07/11/2025	08/11/2025	1	4000	Business	Checked-in		7	UPI	
BK003	CU103	RM307	BR02	D003	10/11/2025	12/11/2025	2	9800	Conference	Checked-in		14	Cash	
BK004	CU104	RM308	BR01	D004	11/11/2025	15/11/2025	4	20500	Vacation	Checked-in		10	Corporate Accou	
BK005	CU105	RM310	BR04	D005	13/11/2025	14/11/2025	1	3200	Business	No-show	Price	8	Credit Card	
BK006	CU106	RM305	BR02	D006	14/11/2025	18/11/2025	4	16800	Vacation	Checked-in		11	UPI	
BK007	CU107	RM312	BR03	D007	15/11/2025	18/11/2025	3	11200	Conference	Checked-in		9	Corporate Accou	
BK008	CU108	RM313	BR01	D008	16/11/2025	19/11/2025	3	12500	Conference	Checked-in		6	Cash	
BK009	CU109	RM315	BR02	D009	17/11/2025	18/11/2025	1	2900	Business	Cancelled	Weather	5	UPI	
BK010	CU110	RM318	BR04	D010	19/11/2025	23/11/2025	4	21000	Vacation	Checked-in		13	Corporate Accou	
BK011	CU111	RM320	BR02	D011	20/11/2025	21/11/2025	1	4500	Business	Checked-in		6	Credit Card	

hotel Revenue Analysis

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D2 =TEXT(B2,"MMMM")

	A	B	C	D	E	F	G
1	DateID	FullDate	Day	Month	Quarter	Year	Season
2	D001	12/01/2015	12	January	Q4	2015	Winter
3	D002	25/03/2016	25	March	Q4	2016	Spring
4	D003	8/5/2016	8	May	Q4	2016	Spring
5	D004	19/7/2017	19	July	Q4	2017	Summer
6	D005	4/9/2017	4	September	Q4	2017	Autumn
7	D006	16/11/2018	16	November	Q4	2018	Winter
8	D007	28/12/2018	28	December	Q4	2018	Winter
9	D008	10/2/2019	10	February	Q4	2019	Winter
10	D009	23/4/2019	23	April	Q4	2019	Spring
11	D010	5/6/2020	5	June	Q4	2020	Summer
12	D011	14/8/2020	14	August	Q4	2020	Summer

Hotel_Booking | Customer | Room | Branch | date

S2 =(R2/20)*100

	H	I	J	K	L	M	N	O	P	Q	R	S
1	utDate	DurationOfStay	Revenue	StayType	BookingStatus	ncellationReas	LeadTime	PaymentMethod	DiscountApplied	BookingChanne	Purpose	RoomNightsSold	OccyRate
2	1/2025	4	18000	Vacation	Checked-in		12	Corporate Accou	10	Website	Vacation	4	=(R2/20)*100
3	1/2025	1	4000	Business	Checked-in		7	UPI	5	Travel Agent	Business	1	5
4	1/2025	2	9800	Conference	Checked-in		14	Cash	0	Call Center	Conference	2	10
5	1/2025	4	20500	Vacation	Checked-in		10	Corporate Accou	15	Mobile App	Vacation	4	20
6	1/2025	1	3200	Business	No-show	Price	8	Credit Card	0	Website	Business	1	5
7	1/2025	4	16800	Vacation	Checked-in		11	UPI	5	Travel Agent	Vacation	4	20
8	1/2025	3	11200	Conference	Checked-in		9	Corporate Accou	0	Mobile App	Conference	3	15
9	1/2025	3	12500	Conference	Checked-in		6	Cash	10	Call Center	Conference	3	15
10	1/2025	1	2900	Business	Cancelled	Weather	5	UPI	0	Website	Business	1	5
11	1/2025	4	21000	Vacation	Checked-in		13	Corporate Accou	10	Travel Agent	Vacation	4	20
12	1/2025	1	4500	Business	Checked-in		6	Credit Card	0	Mobile App	Business	1	5

Hotel_Booking | Customer | Room | Branch | date

hotel Revenue Analysis

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Q2

```
=SWITCH(TRUE(),
    H2=1, "Business",
    AND(H2>=2, H2<=3), "Conference",
    AND(H2>=4, H2<=5), "Vacation",
    AND(H2>=6, H2<=10), "Holiday",
    H2>10, "Long Stay",
    "Unknown")
```

	H	I	J	K	L	M	N	O	P	Q	R	S
1	utDate	DurationOfStay	Revenue	Stay Type	BookingStatus	ncellationReas	LeadTime	PaymentMethod	DiscountApplied	BookingChan	Purpose	RoomNightsSold	OccupancyRate
2	1/2025	4	18000	Vacation	Checked-in		12	Corporate Accou	10	Website			20
3	1/2025	1	4000	Business	Checked-in		7	UPI	5	Travel Agent			5
4	1/2025	2	9800	Conference	Checked-in		14	Cash	0	Call Center			10
5	1/2025	4	20500	Vacation	Checked-in		10	Corporate Accou	15	Mobile App			20
6	1/2025	1	3200	Business	No-show	Price	8	Credit Card	0	Website			5
7	1/2025	4	16800	Vacation	Checked-in		11	UPI	5	Travel Agent			20
8	1/2025	3	11200	Conference	Checked-in		9	Corporate Accou	0	Mobile App	Conference	3	15
9	1/2025	3	12500	Conference	Checked-in		6	Cash	10	Call Center	Conference	3	15
10	1/2025	1	2900	Business	Cancelled	Weather	5	UPI	0	Website	Business	1	5
11	1/2025	4	21000	Vacation	Checked-in		13	Corporate Accou	10	Travel Agent	Vacation	4	20
12	1/2025	1	4500	Business	Checked-in		6	Credit Card	0	Mobile App	Business	1	5

Hotel_Booking | Customer | Room | Branch | date

hotel Revenue Analysis

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D2

```
=SWITCH(
  TRUE,
  C2 < 3500, "Economy",
  C2 < 4000, "Standard",
  C2 < 4500, "Executive",
  C2 < 4800, "Deluxe",
  C2 >= 4800, "Suite",
  "Unknown"
)
```

	A	B	C	D	E	F	G	H
1	RoomID	BedType	PricePerNight	RoomType	Capacity	Amenities	IsACRoom	IsSeaside
2	RM301	Queen	4500		2	WiFi, TV, Balcon	Yes	No
3	RM302	Twin	4000		2	WiFi, TV	Yes	No
4	RM307	King	4900		4	WiFi, Jacuzzi, O	Yes	Yes
5	RM308	King	5200		2	Jacuzzi, Ocean	Yes	Yes
6	RM310	Single	3200		1	WiFi	No	No
7	RM305	Queen	4200		2	WiFi, Workspace	Yes	No
8	RM312	Twin	3700		2	WiFi, TV	Yes	No
9	RM313	King	4600		2	WiFi, Balcony	Yes	No
10	RM315	Queen	2900	Economy	2	Workspace, WiF	Yes	No
11	RM318	Double	5200	Suite	4	WiFi, TV, Sofa B	Yes	No
12	RM320	Queen	4500	Deluxe	2	WiFi, Workspace	Yes	No

Hotel_Booking | Customer | Room | Branch | date

hotel Revenue Analysis

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J2

```
=SWITCH(Q2,
    "Holiday", "Vacation",
    "Vacation", "Vacation",
    "Business", "Business",
    "Conference", "Conference",
    "Other", "Leisure",
    "Unknown")
```

	H	I	J	K	L	M	N	O	P	Q	R	S
1	tDate	DurationOfStay	Revenue	StayType	BookingStatus	ncellationReas	LeadTime	PaymentMethod	DiscountApplied	BookingChanne	Purpose	RoomNightsSold	OccupancyRate
2	1/2025	4	18000	=SWITCH(Q2,			12	Corporate Accou	10	Website	Vacation	4	20
3	1/2025	1	4000	"Holiday", "Vacation",			7	UPI	5	Travel Agent	Business	1	5
4	1/2025	2	9800	"Vacation", "Vacation",			14	Cash	0	Call Center	Conference	2	10
5	1/2025	4	20500	"Business", "Business",			10	Corporate Accou	15	Mobile App	Vacation	4	20
6	1/2025	1	3200	"Conference", "Conference",		e	8	Credit Card	0	Website	Business	1	5
7	1/2025	4	16800	"Other", "Leisure",			11	UPI	5	Travel Agent	Vacation	4	20
8	1/2025	3	11200	"Unknown") Conference	Checked-in		9	Corporate Accou	0	Mobile App	Conference	3	15
9	1/2025	3	12500	Conference	Checked-in		6	Cash	10	Call Center	Conference	3	15
10	1/2025	1	2900	Business	Cancelled	Weather	5	UPI	0	Website	Business	1	5
11	1/2025	4	21000	Vacation	Checked-in		13	Corporate Accou	10	Travel Agent	Vacation	4	20
12	1/2025	1	4500	Business	Checked-in		6	Credit Card	0	Mobile App	Business	1	5

Hotel_Booking | Customer | Room | Branch | date

hotel Revenue Analysis

File Edit View Insert Format Data Tools Extensions Help

F2

```
=YEAR(B2)
```

	A	B	C	D	E	F	G
1	DateID	FullDate	Day	Month	Quarter	2015 ar	Season
2	D001	12/01/2015	12	January	Q4	=YEAR(B2)	Winter
3	D002	25/03/2016	25	March	Q4	2016	Spring
4	D003	8/5/2016	8	May	Q4	2016	Spring
5	D004	19/7/2017	19	July	Q4	2017	Summer
6	D005	4/9/2017	4	September	Q4	2017	Autumn
7	D006	16/11/2018	16	November	Q4	2018	Winter
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9	D008	10/2/2019	10	February	Q4	2019	Winter
10	D009	23/4/2019	23	April	Q4	2019	Spring
11	D010	5/6/2020	5	June	Q4	2020	Summer
12	D011	14/8/2020	14	August	Q4	2020	Summer

Hotel_Booking | Customer | Room | Branch | date

hotel Revenue Analysis

File Edit View Insert Format Data Tools Extensions Help

G2

```
=SWITCH(MONTH(B2), 12,"Winter",1,"Winter",2,"Winter", 3,"Spring",4,"Spring",5,"Spring", 6,"Summer",7,"Summer",8,"Summer", 9,"Autumn",10,"Autumn",11,"Winter")
```

	A	B	C	D	E	F	G
1	DateID	FullDate	Day	Month	Quarter	Year	Winter eason
2	D001	12/01/2015	12	January	Q4	2015	=SWITCH(MONTH(B2), 12,"Winter",1,"Winter",2,"Winter", 3,"Spring",4,"Spring",5,"Spring",
3	D002	25/03/2016	25	March	Q4	2016	6,"Summer",7,"Summer",8,"Summer", 9,"Autumn",10,"Autumn",11,"Winter")
4	D003	8/5/2016	8	May	Q4	2016	Spring
5	D004	19/7/2017	19	July	Q4	2017	Summer
6	D005	4/9/2017	4	September	Q4	2017	Autumn
7	D006	16/11/2018	16	November	Q4	2018	Winter
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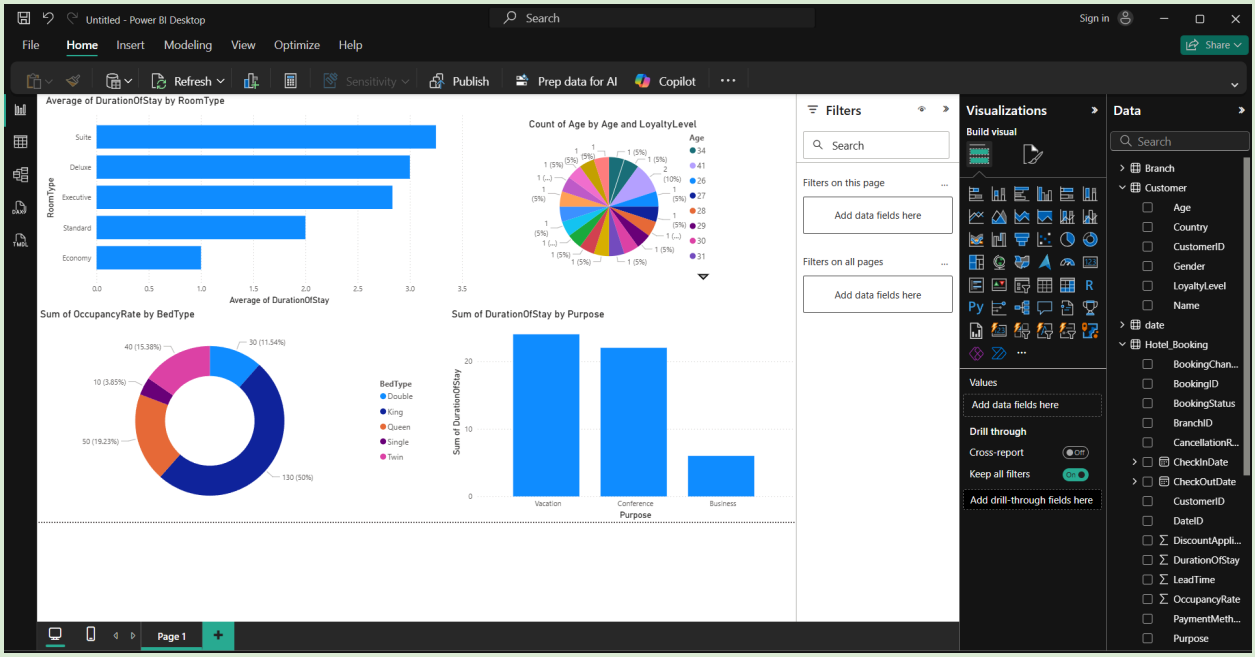
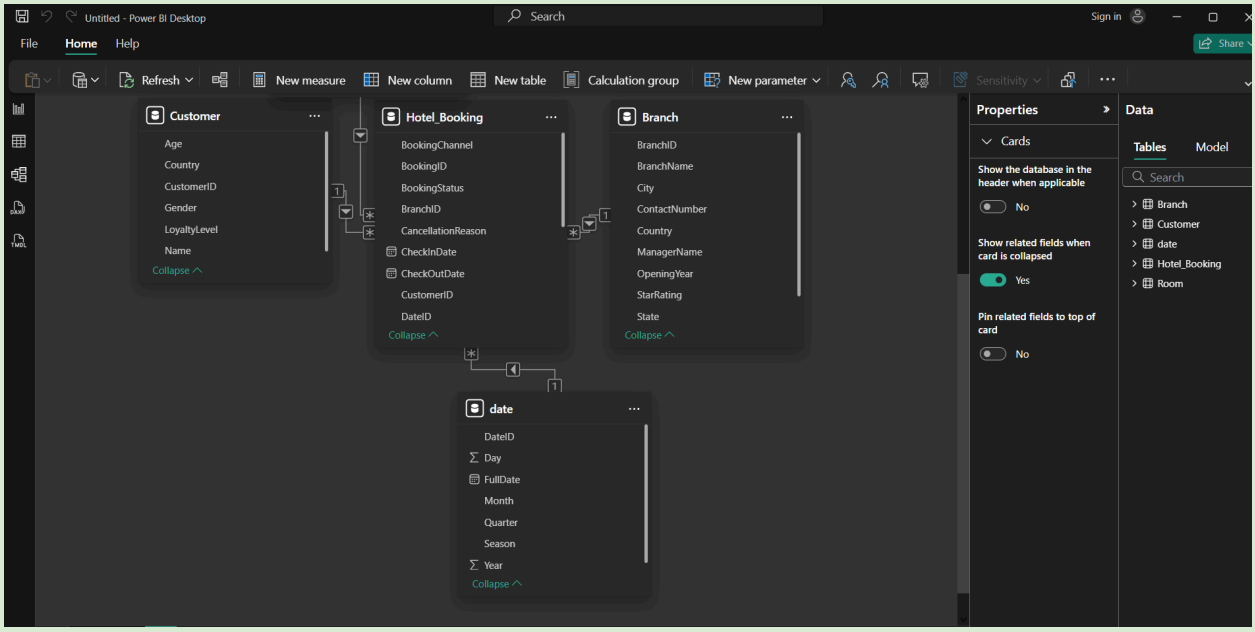
10	D009	23/4/2019	23	April	Q4	2019	Spring
11	D010	5/6/2020	5	June	Q4	2020	Summer
12	D011	14/8/2020	14	August	Q4	2020	Summer

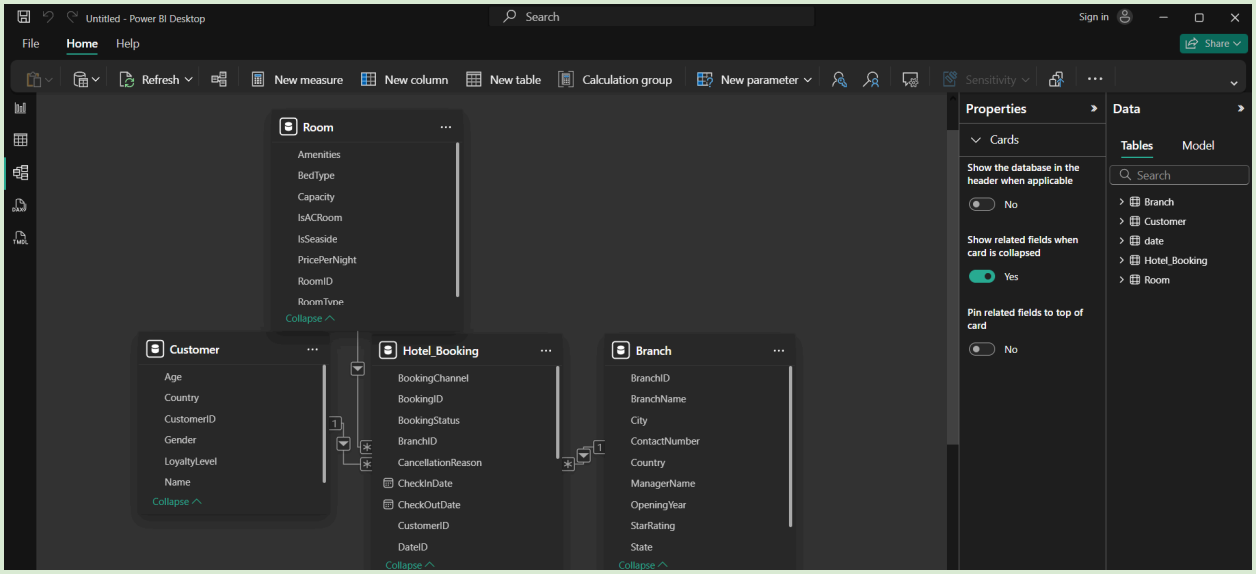
Hotel_Booking | Customer | Room | Branch | date

Visuals:



Relationship Schema

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Help
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Refresh
New measure
New column
New table
Calculation group
New parameter
Sensitivity
Room
Amenities
BedType
Capacity
IsACRoom
IsSeaside
PricePerNight
RoomID
RoomType
Collapse
Customer
Age
Country
CustomerID
Gender
LoyaltyLevel
Name
Collapse
Hotel_Booking
BookingChannel
BookingID
BookingStatus
BranchID
CancellationReason
CheckInDate
CheckOutDate
CustomerID
DateID
Collapse
Branch
BranchID
BranchName
City
ContactNumber
Country
ManagerName
OpeningYear
StarRating
State
Collapse
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Show related fields when card is collapsed
Yes
Pin related fields to top of card
No
Data
Tables
Model
Search
Branch
Customer
date
Hotel_Booking
Room