

# ASSIGNMENT – 2

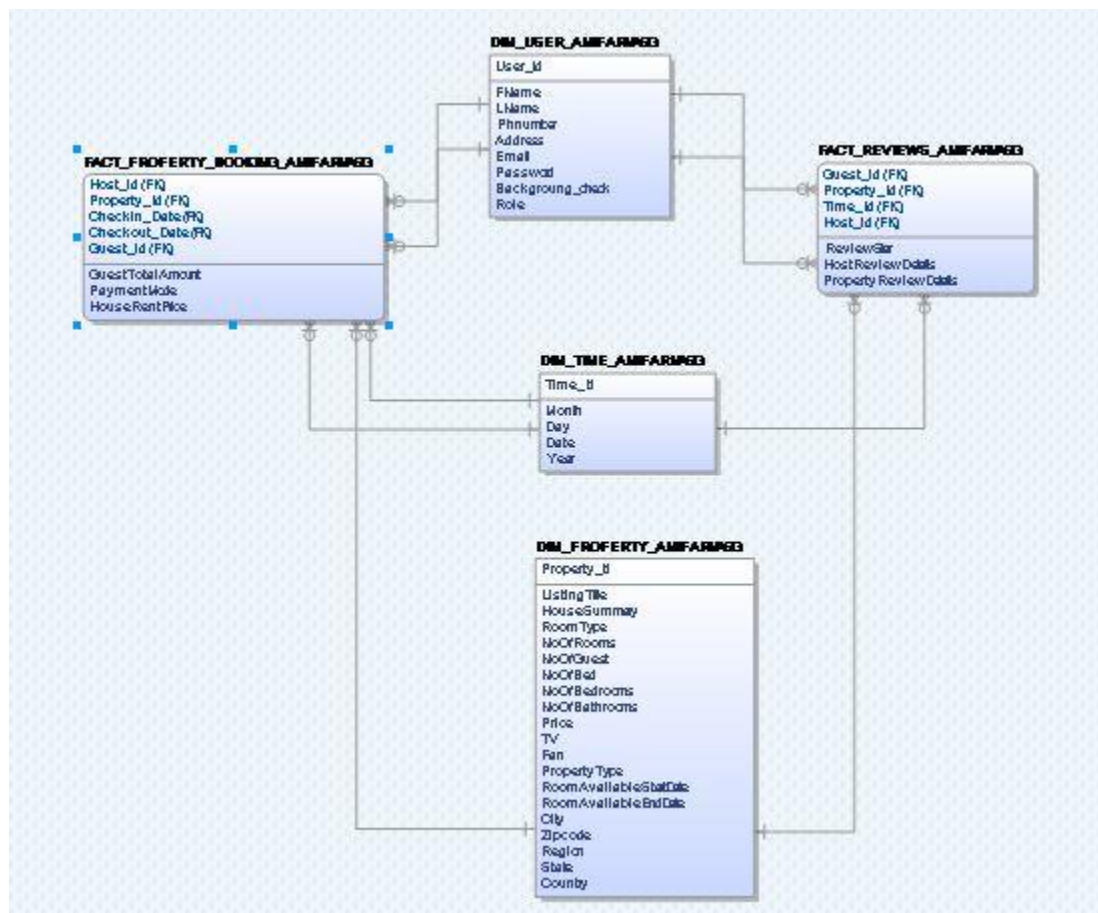
Airbnb is an online and mobile marketplace that allows users to host their apartments, houses or other spaces for travelers or other users. It connects the Hosts with Guests. Host are people who post listings(s) of available spaces on the website. Guests are people who book the spaces.

## **Business Requirements:**

- A guest can provide feedback about his/her stay for the rented space and about the host. Your design should be able to capture history of the reviews. Note : Host Reviews are out of scope - Business should be able to view reviews given per property, per guest, per host, per month etc.
- Make sure your design captures Property details , and details of the Guest and Host
- Your design should capture apartment-booking details. This includes the number of days an apartment is booked for, the total amount billed to the guest, and details about the guest or the host for the transaction - Business should be able to run reports to get the total revenue/no of apartments booked per guest, by the city, apartment zip, by region, by month etc.

# DIMENSIONAL MODELLING

- No of Dimensions: User, Time, Property
- No of Facts: Property\_Booking, Reviews
- Grains for Property\_Booking: Records per guest by property by time
- Grains for Reviews: Reviews per property per guest per host per time



# TABLES:

## FACT\_PROPERTY\_BOOKING\_ANIPARNASG

- Guest total amount is calculated based on the Checkin Date and Checkout Date and the HouseRentPrice

```
select * from FACT_PROPERTY_BOOKING_ANIPARNASG
```

00 %

Results Messages

	Host_id	Property_Id	Checkin_Date	GuestTotalAmount	PaymentMode	Guest_id	Checkout_Date	HouseRentPrice
1	1	1	8	480	Credit	2	36	120
2	3	2	33	600	Online	9	34	200
3	4	3	14	900	Credit	10	37	300
4	5	4	14	360	Online	11	37	120
5	5	16	33	360	Online	2	34	120
6	6	5	14	105	Credit	12	37	35
7	7	6	31	175	Online	13	32	35
8	7	17	31	600	Online	9	32	200
9	8	7	19	600	Credit	15	35	100
10	14	8	31	500	Online	20	32	120
11	14	18	31	1000	Online	10	32	200
12	16	9	33	255	Credit	25	34	85
13	18	10	31	425	Online	26	32	65
14	18	19	11	8600	Online	11	23	200
15	19	11	33	600	Credit	27	34	200
16	19	20	11	8600	Credit	12	23	200
17	21	12	31	1000	Online	28	32	130
18	22	13	33	225	Credit	29	34	75
19	23	14	8	340	Online	30	36	85
20	24	15	19	1500	Credit	30	35	250

## FACT\_REVIEWS\_ANIPARNASG

```

/***** Script for SelectTopNRows command from SSMS *****/
SELECT * FROM [Assign2.2].[dbo].[FACT_REVIEWS_ANIPARNASG]

```

00 %

Results Messages

	Guest_id	Property_Id	Time_Id	ReviewStar	HostReviewDetails	Host_id	PropertyReviewDetails
1	2	1	36	4	Anipama was very attentive and helpful host	1	Place was the best
2	2	16	34	5	Communication was perfect.	5	Place was the best
3	9	2	34	4	Communication was perfect.	3	Place was the best
4	9	17	32	5	She was a good host	7	Place was the best
5	10	3	37	3	Angira was a good host	4	Place was the best
6	10	18	32	5	Host was very sweet and gave us advice on sights...	14	Place was the best
7	11	4	37	4	Host was very sweet and gave us advice on sights...	5	Place was the best
8	11	19	23	5	She has the true sense of how to be a great host	18	Place was the best
9	12	5	37	4	Priyanka has the true sense of how to be a great host	6	Place was the best
10	12	20	23	5	She has the true sense of how to be a great host	19	Place was the best
11	13	6	32	4	She was very attentive and helpful host	7	Place was the best
12	15	7	35	3	Communication was perfect.	8	Place was the best
13	20	8	32	4	Angira was a good host	14	Place was the best
14	25	9	34	3	Host was very sweet and gave us advice on sights...	16	Place was the best
15	26	10	32	2	Host was good but need to improve his commucation	18	Place was the good
16	27	11	34	4	She was very attentive and helpful host	19	Place was the best
17	28	12	32	5	Communication was perfect.	21	Place was the best
18	29	13	34	5	She was a good host	22	Place was the best
19	30	14	36	5	Host was very sweet and gave us advice on sights...	23	Place was the best
20	30	15	35	5	She has the true sense of how to be a great host	24	Place was the best

## DIM\_PROPERTY\_ANIPARNASG

```
1 /***** Script for SelectTopNRows command from SSMS *****/  
2 SELECT * FROM [Assign2.2].[dbo].[DIM_PROPERTY_ANIPARNASG]
```

100 %									
Results Messages									
	Property_Id	Listing Title	HouseSummary	Room Type	NoOfRooms	NoOfGuest	NoOfBed	NoOfBedrooms	NoOfBathrooms
1	1	Jack Sparrow House	Jack Sparrow House is Spacious and Beautiful.	Private	2	3	2	2	1
2	2	Sydney City & Harbour at the door	Sydney City & Harbour at the door	Shared	3	2	1	1	1
3	3	Amazing Apartment	Amazing Apartment is Spacious and Beautiful.	Entire House	4	6	3	3	1
4	4	Luxury Gold Coast	Luxury Gold Coast is Spacious and Beautiful.	Private	3	3	2	2	3
5	5	Beautiful Loft	Beautiful Loft is Spacious and Beautiful.	Private	1	3	1	2	1
6	6	Amazing Stay	Amazing Stay is Spacious and Beautiful.	Shared	1	2	1	1	1
7	7	The Montreal	The Montreal is Spacious and Beautiful.	Entire House	3	5	3	3	2
8	8	The house on the lake	The house on the lake is Spacious and Beautiful.	Entire House	3	6	3	3	3
9	9	The Joshua Tree House	The Joshua Tree House	Entire House	2	4	2	2	1
10	10	Early life	Early life is Spacious and Beautiful.	Entire House	1	2	1	1	1
11	11	The LightHouse	The LightHouse is Spacious and Beautiful.	Entire House	2	4	2	2	1
12	12	House in Countryside	House in Countryside is Spacious and Beautiful.	Private	2	4	2	2	2
13	13	The Pond House	The Pond House is Spacious and Beautiful.	Entire House	2	4	2	2	3
14	14	Villa San Gennariello	Villa San Gennariello is Spacious and Beautiful.	Private	3	6	3	3	3
15	15	Charming GardenRoom	Charming GardenRoom is Spacious and Beautf...	Private	3	6	3	3	1
16	16	The Cozy House	The Cozy House is Spacious and Beautiful.	Entire House	2	4	2	2	2
17	17	Trullo Green Palace	Trullo Green Palace is Spacious and Beautiful.	Entire House	3	6	3	3	2
18	18	Private Family Villa & Pool 66Be...	Private Family Villa & Pool 66Beach	Entire House	3	6	3	3	2
19	19	Stunning All Bamboo House by ...	Stunning All Bamboo House by River	Entire House	3	6	3	3	2
20	20	Cubehouse	Cubehouse	Entire House	3	6	3	3	2

```

/***** Script for SelectTopNRows command from SSMS *****/
SELECT * FROM [Assign2.2].[dbo].[DIM PROPERTY ANIPARNASG]

```

100 %

Results

Messages

	drooms	NoOfBathrooms	Price	TV	Fan	Property Type	RoomAvailableStartDate	RoomAvailableEndDate	City	Zipcode	Region	State	Country
1	1	120	1	1	Apartment	1/1/2010	1/12/2011	Dallas	75252	7650 McCallum Blvd	Texas	USA	
2	1	200	1	0	House	1/12/2011	1/23/2012	BANGALORE	560013	Gangamma circle	KARNATAKA	India	
3	1	300	1	0	Apartment	3/3/2010	3/25/2011	DALLAS	67667	21108 GABLES	TEXAS	USA	
4	3	120	1	1	Bungalow	3/14/2011	3/25/2012	GUWAHATI	676767	REHABARI	ASSAM	India	
5	1	35	1	1	Loft	2/2/2010	2/13/2012	SANFRANCISCO	45666	567 CUPERTINO	CALIFORNIA	USA	
6	1	35	1	1	Apartment	2/13/2010	2/24/2012	KOTA	678996	56 RAULPANDI	RAJASTHAN	India	
7	2	100	1	1	Cabin	4/4/2010	4/15/2012	AGARTALA	67788	RAMNAGAR	TRIPURA	India	
8	3	120	1	1	House	4/15/2010	4/26/2012	Bangalore	560013	KALINGA RAO RD	Karnataka	India	
9	1	85	1	1	TreeHouse	6/5/2010	6/16/2012	Cupertino	76542	6789 CUPERTINO	Califomia	USA	
10	1	65	0	1	Cave	6/16/2010	6/27/2012	Sonipat	560045	ektahouse	Haryana	India	
11	1	200	0	1	LightHouse	7/6/2010	7/17/2012	Seattle	56001	preston road	Washington	USA	
12	2	130	1	1	House	8/7/2010	8/18/2012	Delhi	678899	nirvan vihar	Delhi	India	
13	3	75	1	1	House	8/18/2010	8/29/2012	Boston	56775	7742 estates	New York	USA	
14	3	85	1	1	Bungalow	9/8/2010	9/19/2012	Delhi	676523	delhicant	Delhi	India	
15	1	250	1	1	Cabin	9/19/2010	9/30/2012	Richardson	75656	estates of frankfort	Texas	USA	
16	2	120	1	1	Apartment	10/9/2010	10/20/2012	Mumbai	568945	vasantvihar	Maharashtra	India	
17	2	200	1	1	House	11/10/2010	11/21/2012	Boston	56675	gables	NewYork	USA	
18	2	200	1	1	House	12/11/2010	12/22/2012	Mumbai	565656	geetanjali	Maharashtra	India	
19	2	200	1	1	House	12/11/2010	12/22/2012	SanFrancisco	66655	mc callumbld	Califomia	USA	
20	2	200	1	1	House	12/11/2010	12/22/2012	Mulund	560034	sector 7, Mulund	Maharahtra	India	

**DIM\_TIME\_ANIPARNASG**



```

/***** Script for SelectTopNRows command from SSMS *****/
SELECT * FROM [Assign2.2].[dbo].[DIM_TIME_ANIPARNASG]

```

100 %

Results Messages

	Time_Id	Month	Day	Date	Year
2	2	February	Tuesday	2	2010
3	3	March	Wednesday	3	2010
4	4	April	Thursday	4	2010
5	5	June	Friday	5	2010
6	6	July	Saturday	6	2010
7	7	August	Sunday	7	2010
8	8	September	Monday	8	2010
9	9	October	Tuesday	9	2010
10	10	November	Wednesday	10	2010
11	11	December	Thursday	11	2011
12	12	January	Friday	12	2011
13	13	February	Saturday	13	2011
14	14	March	Sunday	14	2011
15	15	April	Monday	15	2011
16	16	June	Tuesday	16	2011
17	17	July	Wednesday	17	2011
18	18	August	Thursday	18	2011
19	19	September	Friday	19	2011
20	20	October	Saturday	20	2011
21	21	November	Sunday	21	2012
22	22	December	Monday	22	2012
23	23	January	Tuesday	23	2012
24	24	February	Wednesday	24	2012

```

/***** Script for SelectTopNRows command from SSMS *****/
SELECT * FROM [Assign2.2].[dbo].[DIM_TIME_ANIPARNASG]

```

00 %

Results Messages

	Time_Id	Month	Day	Date	Year
15	15	April	Monday	15	2011
16	16	June	Tuesday	16	2011
17	17	July	Wednesday	17	2011
18	18	August	Thursday	18	2011
19	19	September	Friday	19	2011
20	20	October	Saturday	20	2011
21	21	November	Sunday	21	2012
22	22	December	Monday	22	2012
23	23	January	Tuesday	23	2012
24	24	February	Wednesday	24	2012
25	25	March	Thursday	25	2012
26	26	April	Friday	26	2012
27	27	June	Saturday	27	2012
28	28	July	Sunday	28	2013
29	29	August	Monday	29	2013
30	30	September	Tuesday	30	2013
31	31	December	Wednesday	10	2010
32	32	December	Sunday	14	2010
33	33	October	Sunday	21	2011
34	34	October	Tuesday	23	2011
35	35	September	Wednesday	24	2011
36	36	September	Thursday	11	2010
37	37	March	Tuesday	16	2011



## DIM\_USER\_ANIPARNASG

/\*\*\*\*\* Script for SelectTopNRows command from SSMS \*\*\*\*\*/

SELECT \* FROM [Assign2.2].[dbo].[DIM\_USER\_ANIPARNASG]

100 %

Results

Messages

	User_id	FName	LName	Phnumber	Address	Email	Password	Backgroung_check	Role
1	1	Anipama	Sengupta	14567892345	MCCALLUM BLVD 916	anipama.sg@gmail.com	446475555656	1	Host
2	2	Rhea	Gupta	123345566	7650 mccallum blvd	anipama.s@gmail.com	123456	0	Guest
3	3	Anipama	SG	54544554	7653 mccallum blvd	rhea@yahoo.co.in	355@445fgf	1	Host
4	4	Angira	Sen	545445455	7000 mccallum blvd	shona@hotmail.com	454454	1	Host
5	5	Priyanka	Gautam	4545455454	7654 mccallum blvd	asg@gmail.com	343443	1	Host
6	6	Afreen	Begum	56565566	9876 mccallum blvd	pg@utdallas.edu	44445ghf@@##	1	Host
7	7	Fathima	Khan	4698036377	7780 mc callum blvd	ash@utdallas.edu	1234scooby1234	1	Host
8	8	Tanmay	Saha	4554566666	768 kamataka IN	fgt@utdallas.edu	56fgt56	1	Host
9	9	amard...	gehlott	6644245555	89 agartala IN	tyu78@utdallas.edu	56g\$34	0	Guest
10	10	anirudh	saha	9416184848	7780mc callum blv	uyi67@gmail.com	67!@34	0	Guest
11	11	Amar	Khan	9632565235	shillong meghalaya	axs169832@utdallaas	567&*tu	0	Guest
12	12	astriya	Jose	5325263556	Udaipur Rajasthan	amar34@hotmail.com	5655#55	0	Guest
13	13	Chetna	Kumari	6767673267	Karachi Pakistan	asrt@gmail.com	ggg%%^	0	Guest
14	14	Sheela	Tagore	5632532556	LA califomia	chetna@yahoo.com	gged556	1	Host
15	15	Veda	Prakash	6236732666	Sanfrancisco CA	sheela@hotmail.com	fgg5656\$\$	0	Guest
16	16	Sultan	Ahmed	6723673267	Seattle WA	vedprakash@yahoo.c...	ggd56532	1	Host
17	17	Rahul	Agnihotri	9213661233	7650 mccallum blvd	sultan@gmail.com	fggf66776	0	Host
18	18	Chetna	Suresh	8912351233	7650 mccallum blvd	roti@gmail.com	g6767@334	1	Host
19	19	Raju	Rastogi	8923663332	7650 mccallum blvd	chetna34@yahoo.com	bsd665@33	1	Host
20	20	Mike	Joseph	6723667236	7650 mccallum blvd	raju@gmail.com	hsdg676767	0	Guest
21	21	Nate	J	3267326766	7650 mccallum blvd	mike@yahoo.co.in	ggds6656	1	Host
22	22	Caitlyn	M	2345678901	Frisco Dallas Texas	nate@yahoo.co.in	535623@fff	1	Host
23	23	Maizie	P	8764333377	795 E DRAGRAM	caitlyn@yahoo.co.in	5325@hgsth	1	Host

```
/****** Script for SelectTopNRows command from SSMS *****/
```

```
SELECT * FROM [Assign2.2].[dbo].[DIM_USER_ANIPARNASG]
```

100 %

Results Messages

	User_id	FName	LName	Phnumber	Address	Email	Password	Backgroung_check	Role
8	8	Tanmay	Saha	4554566666	768 kamataka IN	fgt@utdallas.edu	56fgt56	1	Host
9	9	amard...	gehlott	6644245555	89 agartala IN	tyu78@utdallas.edu	56g\$34	0	Guest
10	10	anirudh	saha	9416184848	7780mc callum blv	uyi67@gmail.com	67!@34	0	Guest
11	11	Amar	Khan	9632565235	shillong meghalaya	axs169832@utdallaas	567&*tu	0	Guest
12	12	astriya	Jose	5325263556	Udaipur Rajasthan	amar34@hotmail.com	5655#55	0	Guest
13	13	Chetna	Kumari	6767673267	Karachi Pakistan	asrt@gmail.com	ggg%%^	0	Guest
14	14	Sheela	Tagore	5632532556	LA califomia	chetna@yahoo.com	gged556	1	Host
15	15	Veda	Prakash	6236732666	Sanfrancisco CA	sheela@hotmail.com	fgg5656\$\$	0	Guest
16	16	Sultan	Ahmed	6723673267	Seattle WA	vedprakash@yahoo.c...	ggd56532	1	Host
17	17	Rahul	Agnihotri	9213661233	7650 mccallum blvd	sultan@gmail.com	fggf66776	0	Host
18	18	Chetna	Suresh	8912351233	7650 mccallum blvd	roti@gmail.com	g6767@334	1	Host
19	19	Raju	Rastogi	8923663332	7650 mccallum blvd	chetna34@yahoo.com	bsd665@33	1	Host
20	20	Mike	Joseph	6723667236	7650 mccallum blvd	raju@gmail.com	hsdg676767	0	Guest
21	21	Nate	J	3267326766	7650 mccallum blvd	mike@yahoo.co.in	ggds6656	1	Host
22	22	Caitlyn	M	2345678901	Frisco Dallas Texas	nate@yahoo.co.in	535623@fff	1	Host
23	23	Maizie	P	8764333377	795 E DRAGRAM	caitlyn@yahoo.co.in	5325@hgsdh	1	Host
24	24	Olawale	S	6236623632	TUCSON AZ 85705	maizie@yahoo.co.in	5635@hsd	1	Host
25	25	Pranav	Mandol...	6236636236	799 E DRAGRAM	olawale@hotmail.com	677@###\$	0	Guest
26	26	Gauri	Phansikar	6723632632	421 E DRAGRAM	pranav.m@gmail.com	3434@##	0	Guest
27	27	Priyanka	Gautam	7732732737	PHOENIX AZ 85123	gauri.p@gmail.com	\$\$%\$%fgf21	0	Guest
28	28	Swasti	Srivasta...	7237327237	200 E MAIN ST	priyanka.g@gmail.com	NU##\$LL\$	0	Guest
29	29	Oscar	Jose	6236636326	300 BOYLSTON AVE...	swasti.s@gmail.com	FFGF673263	0	Guest
30	30	Jacob	P	6723663263	SEATTLE WA 98102	oscar.p@hotmail.com	gghg##\$ghe	0	Guest