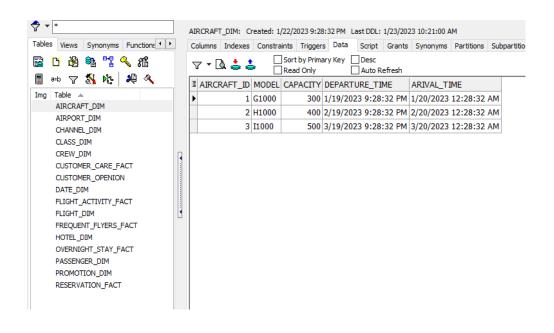
# Physical Data Model

#### --Aircraft Dim

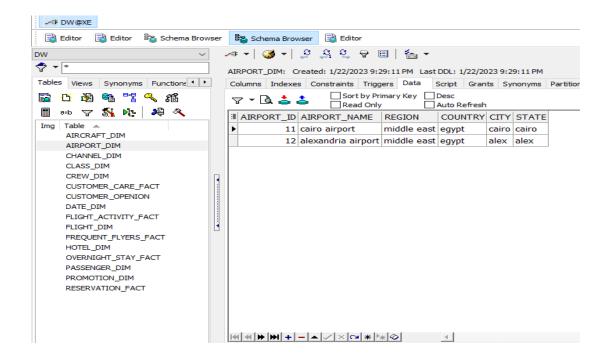
```
CREATE TABLE DW.AIRCRAFT_DIM
(
   AIRCRAFT_ID NUMBER,
   MODEL VARCHAR2(100 BYTE),
   CAPACITY NUMBER,
   DEPARTURE_TIME DATE,
   ARIVAL_TIME DATE
)
```



### --Airport Dim

```
CREATE TABLE DW.AIRPORT_DIM

(
   AIRPORT_ID NUMBER,
   AIRPORT_NAME VARCHAR2(100 BYTE),
   REGION VARCHAR2(100 BYTE),
   COUNTRY VARCHAR2(100 BYTE),
   CITY VARCHAR2(100 BYTE),
   STATE VARCHAR2(100 BYTE)
)
```



### --Channel Dim

```
CREATE TABLE DW.CHANNEL_DIM

(
CHANNEL_ID NUMBER,
CHANNEL_TYPE VARCHAR2(100 BYTE)
)

er Schema Browser Editor

CHANNEL_DIM: Created: 1/22/2023 9:28:40 PM Last DDL: 1/22/2023 9:28:40 PM

Columns Indexes Constraints Triggers Data Script Grants Synonyms

COlumns Indexes Constraints Triggers Data Script Grants Synonyms

Read Only

CHANNEL_TYPE

111 website
2222 office
3333 telephone
```

#### --Class Dim

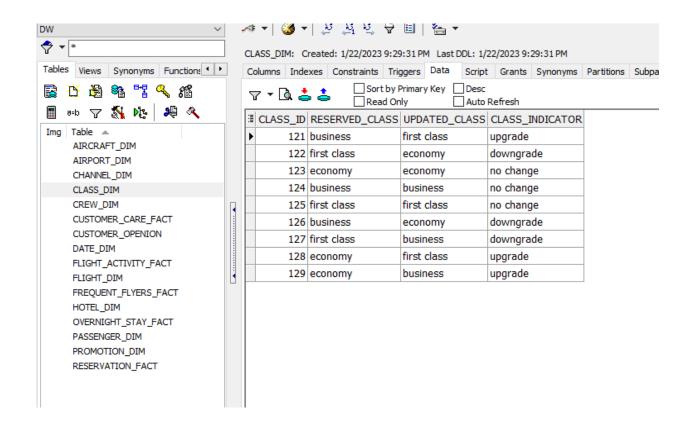
```
CREATE TABLE DW.CLASS_DIM

(
CLASS_ID NUMBER,

RESERVED_CLASS VARCHAR2(100 BYTE),

UPDATED_CLASS VARCHAR2(100 BYTE),

CLASS_INDICATOR VARCHAR2(100 BYTE)
)
```



#### --Crew Dim

```
CREATE TABLE DW.CREW_DIM
(

EMPLOYEE_ID NUMBER,

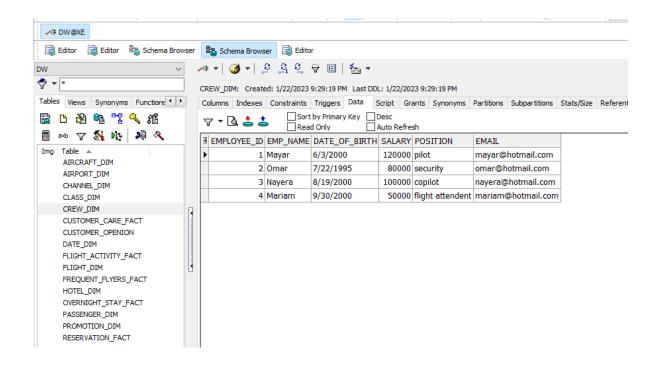
EMP_NAME VARCHAR2(100 BYTE),

DATE_OF_BIRTH DATE,

SALARY NUMBER,

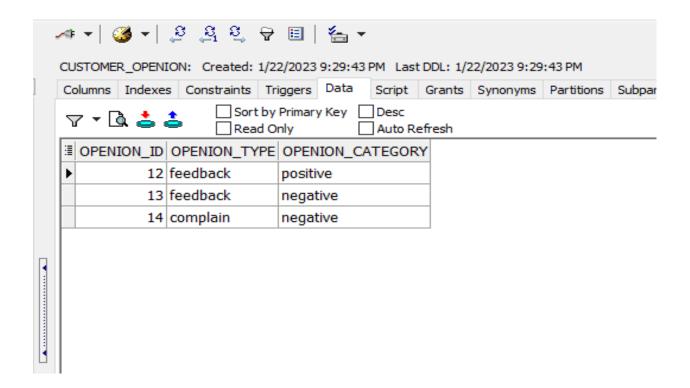
POSITION VARCHAR2(100 BYTE),

EMAIL VARCHAR2(100 BYTE)
)
```

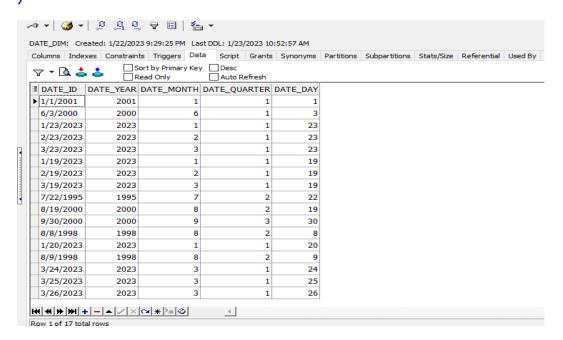


## --Customer Opinion Dim

```
CREATE TABLE DW.CUSTOMER_OPENION
(
OPENION_ID NUMBER,
OPENION_TYPE VARCHAR2(100 BYTE),
OPENION_CATEGORY VARCHAR2(100 BYTE)
)
```



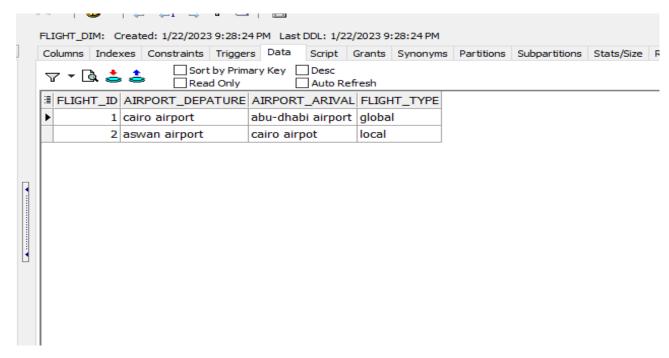
#### --Date Dim



## --Flight Dim

```
CREATE TABLE DW.FLIGHT_DIM

(
   FLIGHT_ID NUMBER,
   AIRPORT_DEPATURE VARCHAR2(100 BYTE),
   AIRPORT_ARIVAL VARCHAR2(100 BYTE),
   FLIGHT_TYPE VARCHAR2(100 BYTE)
)
```



#### --Hotel Dim

```
CREATE TABLE DW.HOTEL_DIM
 HOTEL_ID
                    NUMBER,
 HOTEL_NAME
                      VARCHAR2(100 BYTE),
 COUNTRY
                     VARCHAR2(100 BYTE),
 CITY
                 VARCHAR2(100 BYTE),
 NUMBER_OF_ROOMS NUMBER,
 HOTLINE
                    NUMBER,
 EMAIL
                  VARCHAR2(100 BYTE)
 🚁 🕶 🗸 💆 🗗 🖺 🕍 🛧
 HOTEL_DIM: Created: 1/22/2023 9:28:54 PM Last DDL: 1/22/2023 9:28:54 PM
 Columns Indexes Constraints Triggers Data Script Grants Synonyms Partitions Subpartitions Stats/Size Referential Used By Policies Auditing
                 Sort by Primary Key Desc
 7 → 🖟 🕹
                 Read Only
                                Auto Refresh
 HOTEL ID HOTEL NAME COUNTRY
                              CITY
                                     NUMBER_OF_ROOMS HOTLINE EMAIL
       123 hilton
                                                       1950 hilton@hotmail.com
                                                10000
                     egypt
                              cairo
       456 gw-marriott | saudi arabia el-reyad |
                                                50000
                                                       5052 marriott@hotmail.com
```

## --Passenger Dim

```
CREATE TABLE DW.PASSENGER_DIM

(

PASSENGER_ID NUMBER,

PASSENGER_NAME VARCHAR2(100 BYTE),

DATE_OF_BIRTH DATE,

EMAIL VARCHAR2(100 BYTE),

STATUS VARCHAR2(100 BYTE),

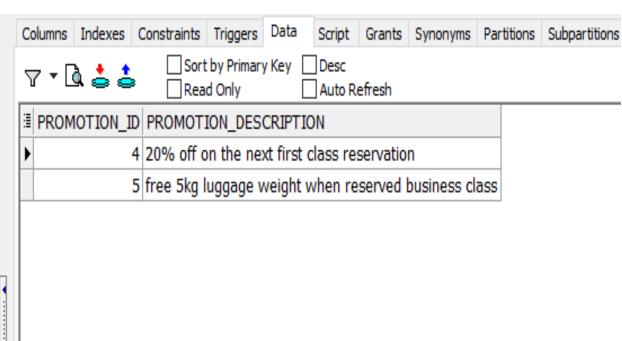
PHONE NUMBER,

COUNTRY VARCHAR2(100 BYTE)
)
```

PAS	SSENGER_DIM: C	reated: 1/22/2023 9:28:	47 PM 1	ast DDL:	: 1/22/20	)23 9:28:47 P	M					
Co	lumns Indexes	Constraints Triggers	Data	Script	Grants	Synonyms	Partitions	Subpartition	ons Stats/Size	Referential	Used By	Po
2	7 ▼ 🖟 🕹 🕹	Sort by Primary Read Only	Key [	Desc Auto Re	efresh							
:≣	PASSENGER_ID	PASSENGER_NAME	DATE_	OF_BIR	RTH EM	IAIL		STATUS	PHONE	COUNTRY		
Þ	1	mariam	6/3/20	00	ma	riam@hotn	nail.com	platinum	11111111	egypt		
	2	elbahey	8/19/2	.000	elb	ahey@hotn	nail.com	gold	12222222	egypt		
	3	doaa	7/22/1	995	do	aa@hotmai	.com	silver	13333333	spain		
	4	fatma	8/8/19	98	fat	ma@hotma	il.com	aluminum	14444444	usa		
	5	shahd	1/20/2	023	sha	ahd@hotma	il.com	platinum	1555555	colombia		
	6	donia	1/19/2	023	do	a@hotmail.	com	gold	166666666	egypt		
	7	abdelrahman	1/19/2	023	ab	do@hotmai	.com	platinum	11777777	dubai		

#### --Promotion Dim

```
CREATE TABLE DW.PROMOTION_DIM
(
    PROMOTION_ID NUMBER,
    PROMOTION_DESCRIPTION VARCHAR2(100 BYTE)
)
```



# -----facts-----

# --Customer\_Care\_Fact

create table customer\_care\_fact( date\_id date constraint care\_date\_fk references date\_dim(date\_id), flight\_id number constraint care\_flight\_fk references flight\_dim(flight\_id),

passenger\_id number constraint care\_pass\_fk references passenger\_dim(passenger\_id), openion\_id number constraint care\_opinion\_fk references customer\_openion(openion\_id), interaction\_type varchar2(100), description

varchar2(100), problem\_severety varchar2(100), feedback\_rate number);

Col	umns Ind	lexes Cons	traints	Triggers	Data	Script (	Grants	Synonyms	Partit	tions	Subpartitio	ns S	Stats/Size	Referentia	al Used By	Policies	Auditin
7	<b>→</b> 🖟 .	•		t by Primary d Only		Desc Auto Refi	resh										
≣ [	DATE_ID	FLIGHT_	D PAS	SSENGER_	ID O	PENION_ID	INTE	RACTION_	TYPE	DESC	CRIPTION	PRO	BLEM_SE	VERETY	FEEDBACK	_RATE	
<b>)</b> 1	/23/202	3	1		2	14	after			stole	n bag	high	1			2	
3	3/19/202	3	2		4	12	withir	ı		good	food					4	
1	/20/202	3	1		2	12	after			good	food					5	

## --Flight \_Activity\_Fact

create table flight\_activity\_fact( flight\_id number constraint flight\_fk references flight\_dim(flight\_id) ,

passenger\_id number constraint pass\_fk references

passenger\_dim(passenger\_id),

airport\_id number constraint airport\_fk references

airport\_dim(airport\_id),

depature\_date date constraint depature\_fk references date\_dim(date\_id) ,aircraft\_id number constraint aircraft\_fk references aircraft\_dim(aircraft\_id) ,arrival\_time date constraint arrival\_fk references date\_dim (date\_id),duration number,

no\_miles number , total\_price number , total\_cost

number , total\_profit number );

Columns	Indexes	Constraints	Triggers	Data	Script	Grants	Synonyms	Partitio	ons Subpar	titions	Stats/Size	Referential	Used By	Policies	Auditing		
<b>∀</b> •[	Ì 🕹	☐ Sort	by Primar d <b>Only</b>	у Кеу	Desc Auto Re	efresh											
FLIGH	HT_ID PA	ASSENGER_ID	AIRPOR	RT_ID	DEPATUR	RE_DATE	AIRCRAF	Γ_ID	ARRIVAL_1	ΓIME	DURATION	NO_MILES	TOTAL_	PRICE	TOTAL_COST	TOTAL_P	ROFIT
•	1	2		12	1/19/202	3		2 :	1/19/2023		6	7500		100	7	)	30
	1	3		12	1/19/202	3		2	1/19/2023		6	7500		300	10	)	200
	2	2		11	1/20/202	3		1	1/20/2023		8	500		250	6	)	190
	2	1		11	3/26/202	3		13	3/26/2023		5	400		500	25	)	250
	1	4		12	3/25/202	3		2 3	3/26/2023		12	8952		5555	55	5	5000

## --Frequent\_Flayers\_Fact

create table frequent\_flyers\_fact( passenger\_id number constraint frequent\_pass\_fk references passenger\_dim(passenger\_id), date\_id date constraint frequent\_date\_fk references date\_dim(date\_id),

number\_of\_miles number, promotion\_id number constraint flyer\_promo\_fk references promotion\_dim(promotion\_id) , response\_to\_promotions varchar(10), status varchar2(100), class\_id number constraint frequent\_class\_fk references class\_dim(class\_id),

overnight\_hours number );

		□ ct	Triggers Data		Grants Synony	ms Partition	s Suppartitions	Stat	s/bize Ref	erentiai US	ea by Policie	es Auditing
7	' ▼ 🖟 📥 🛔	Read	by Primary Key Down		Refresh							
1	PASSENGER_II	DATE_ID	NUMBER_OF_M	LES F	PROMOTION_ID	RESPONSE	_TO_PROMOTI	IONS	STATUS	CLASS_ID	OVERNIGH	T_HOURS
Þ	1	1/20/2023	1	500	4	yes			gold	121		5
	3	3/19/2023	2	.000	4	yes			silver	123		1
	4	3/19/2023	2	.000	5	no			platinum	122		0
	1	2/19/2023		500					gold	121		0
	3	6/3/2000	4	500	5	no			silver	122		5
	2	1/20/2023		200					gold	128		0

## --Overnight\_stay\_Fact

create table overnight\_stay\_fact(ticket\_number number primary key, depature\_time date constraint overnight\_dept\_fk references date\_dim(date\_id), arrival\_time date constraint overnight\_arriv\_fk references date\_dim(date\_id),

hotel\_id number constraint overnight\_hotel\_fk references hotel\_dim(hotel\_id), channel\_id number constraint overnight\_channel\_fk references channel\_dim (channel\_id),

passenger\_id number constraint hotel\_pass\_fk references passenger\_dim(passenger\_id), number\_of\_nights number);

	lumns   Indexes   C	Sort by F	Primary K				-,	.,,		Subpartitions			,	 
1	TICKET_NUMBER	DEPATURE_	TIME A	RRI	 /al_time	HOTE	L_ID	CHANNEL_1	DF	PASSENGER_ID	NUMBER	OF_NIGHT:	5	
Þ	123	1/19/2023	1	/20/	2023		123	11	1	1			5	
	124	3/23/2023	3	/23/	2023		123	11	1	2			0	
	125	3/23/2023	3	/24/	2023		456	33	3	3			2	
	126	3/24/2023	3	/24/	2023		456	22	2	4			0	
	127	1/19/2023	1,	/20/	2023		123	33	3	1		1	5	

## --Reservation\_Fact

create table reservation\_fact( channel\_id number constraint channel\_resv\_fk references channel\_dim(channel\_id),

passenger\_id number constraint pass\_resv\_fk references passenger\_dim(passenger\_id),

date\_id date constraint date\_resv\_fk references date\_dim(date\_id), class\_id number constraint class\_resv\_fk references class\_dim(class\_id),

fare\_base\_type varchar2(100), ticket\_number number, ticket\_price number, flight\_id number constraint flight\_resv\_fk references flight\_dim(flight\_id),

promotion\_id number constraint resv\_promotion\_fk references promotion\_dim(promotion\_id), number\_of\_luggage number, payment\_method varchar2(100), seat number);

K	ESEKVALIC	JN_FAUI	1; Createu: 1/25/	2023 12:03	THY LOS	LUUL; I/	7.)/ZUZO 1Z:(	)); <del>11</del> FIV												
(	olumns I	ndexes	Constraints Tri	ggers Dat	3 Script	Grants	Synonyms	Partitions	Subpartition	s Stats/Size	Refere	ntial U	sed By	Policies	Auditing					
	7 • 🖟	• •	Sort by Read Or	Primary Key <b>1y</b>	Desc <b>Auto</b> R	efresh														
	CHANNE	EL_ID F	PASSENGER_ID	DATE_ID	CLASS_	DFARE	BASE_TY	PE TICKE	_NUMBER	TICKET_PRI	CE FLIG	HT_ID	PRON	NOTION_	ID NUM	BER_OF_LUGGAGE	PAYMENT_ME	THOD	SEAT	<u> </u>
		111	1	1/19/202	3 12	1 full fa	re		123	1	00	1			4	5	cash		54	
		222	2	1/20/202	3 12	2 disco	unt fare		124	2	00	2			5	2	visa		12	
		333	3	3/24/202	12	3 full fa	re		125	3	00	2				7	visa		602	
ľ																				