**create** **schema** dwh\_2;

**create** **table** dim\_calendar(

id serial4 **not** **null**,

"date" **date** **not** **null**,

**CONSTRAINT** dim\_calendar\_pkey **PRIMARY** **KEY** (id)

);

**insert** **into** dim\_calendar ("date")

**select** gs::**date** **from** **generate\_series**('01-01-2000', '01-01-2023', **interval** '1 day') **as** gs

**alter** **table** dim\_calendar **add** **constraint** date\_unique **unique**("date")

**create** **table** dim\_passengers(

passanger\_id **varchar**(20) **not** **null**,

passenger\_name **text** **not** **null**,

contact\_data **json**,

**CONSTRAINT** dim\_passengers\_pkey **PRIMARY** **KEY** (passanger\_id)

);

**insert** **into** dim\_passengers

**select** passenger\_id, passenger\_name, contact\_data **from** bookings.tickets t

**create** **table** dim\_aircrafts(

aircraft\_code **varchar**(5) **NOT** **NULL**,

model **varchar**(25) **NOT** **NULL**,

"range" **int4** **NOT** **NULL**,

**CONSTRAINT** dim\_aircrafts\_model\_key **UNIQUE** (model),

**constraint** dim\_aircrafts\_pkey **PRIMARY** **KEY** (aircraft\_code),

**constraint** dim\_aircrafts\_range\_check **CHECK** ((**range** > 0))

);

**insert** **into** dim\_aircrafts

**select** aircraft\_code, model::**json**->'ru', "range" **from** bookings.aircrafts\_data ad

**select** \* **from** dim\_aircrafts da

**create** **table** dim\_airports(

airport\_code **varchar**(5) **NOT** **NULL**,

airport\_name **varchar**(100) **NOT** **NULL**,

city **varchar**(100) **NOT** **NULL**,

timezone **varchar**(100) **NOT** **NULL**,

**CONSTRAINT** dim\_airports\_airport\_name **UNIQUE** (airport\_name),

**CONSTRAINT** dim\_airports\_pkey **PRIMARY** **KEY** (airport\_code)

);

**insert** **into** dim\_airports

**select** airport\_code, airport\_name::**json**->'ru', city::**json**->'ru', timezone **from** bookings.airports\_data ad

**CREATE** **TABLE** dim\_tariff (

id serial4 **NOT** **NULL**,

fare\_conditions **varchar**(50) **NOT** **NULL**,

**CONSTRAINT** dim\_tariff\_fare\_conditions\_key **UNIQUE** (fare\_conditions),

**CONSTRAINT** dim\_tariff\_pkey **PRIMARY** **KEY** (id)

);

**insert** **into** dim\_tariff(fare\_conditions)

**select** **distinct** fare\_conditions **from** bookings.seats s

Dim\_Calendar - справочник дат

Dim\_Passengers - справочник пассажиров

Dim\_Aircrafts - справочник самолетов

Dim\_Airports - справочник аэропортов

Dim\_Tariff - справочник тарифов (Эконом/бизнес и тд)

**drop** **table** fact\_flights

**create** **table** fact\_flights (

passenger **varchar**(20) **NOT** **NULL**,

date\_dep **timestamp** **NULL**,

date\_arr **timestamp** **NULL**,

diff\_dep **varchar**(20) **NULL**,

diff\_arr **varchar**(20) **NULL**,

model **varchar**(100) **NOT** **NULL**,

airport\_dep **varchar**(50) **NOT** **NULL**,

airport\_arr **varchar**(50) **NOT** **NULL**,

fare\_condition **varchar**(20) **NOT** **NULL**,

amount **numeric**(10, 2) **NOT** **null**

**CONSTRAINT** fact\_flights\_check **CHECK** ((date\_arr > date\_dep)),

**CONSTRAINT** fact\_flights\_check1 **CHECK** (((airport\_arr)::**text** <> (airport\_dep)::**text**)),

**CONSTRAINT** fact\_flights\_date\_dep\_check **CHECK** ((date\_dep <= **CURRENT\_DATE**)),

**CONSTRAINT** fact\_flights\_airport\_arr\_fkey **FOREIGN** **KEY** (airport\_arr) **REFERENCES** dwh\_2.dim\_airports(airport\_name),

**CONSTRAINT** fact\_flights\_airport\_dep\_fkey **FOREIGN** **KEY** (airport\_dep) **REFERENCES** dwh\_2.dim\_airports(airport\_name),

**CONSTRAINT** fact\_flights\_fare\_condition\_fkey **FOREIGN** **KEY** (fare\_condition) **REFERENCES** dwh\_2.dim\_tariff(fare\_conditions),

**CONSTRAINT** fact\_flights\_model\_fkey **FOREIGN** **KEY** (model) **REFERENCES** dwh\_2.dim\_aircrafts(model),

**constraint** fact\_fights\_pass **FOREIGN** **KEY** (passenger) **references** dwh\_2.dim\_passengers(passanger\_id)

);