CREATE DATABASE TravelAgency

CREATE TABLE Employees\_dim

(ID\_employee INT IDENTITY (1,1) PRIMARY KEY,

FirstName NVARCHAR(50) NOT NULL,

LastName NVARCHAR(50) NOT NULL,

Gender NVARCHAR(10) NOT NULL CHECK (Gender LIKE 'Female' OR Gender LIKE 'Male'),

TelNumber NVARCHAR(20) UNIQUE,

Email NVARCHAR(100),

DateEmployment DATE NOT NULL,

DateDismiss DATE NOT NULL

)

CREATE TABLE Customers\_dim

(ID\_customer INT IDENTITY(1,1) PRIMARY KEY,

FirstName NVARCHAR(50) NOT NULL,

LastName NVARCHAR(50) NOT NULL,

PassportNumber NVARCHAR(50) NOT NULL UNIQUE,

Gender NVARCHAR(10) NOT NULL CHECK (Gender LIKE 'Female' OR Gender LIKE'Male'),

DateOfBirth DATE NOT NULL,

TelNumber NVARCHAR(20) UNIQUE

)

CREATE TABLE Tours\_dim

(ID\_tour INT IDENTITY(1,1) PRIMARY KEY,

Name NVARCHAR(50) NOT NULL,

Country NVARCHAR(50) NOT NULL,

Hotel NVARCHAR(50) NOT NULL,

HotelStars INT CHECK (HotelStars BETWEEN 1 AND 5) NOT NULL,

Address NVARCHAR(100),

DurationDays INT,

Price MONEY

)

CREATE TABLE Operators\_dim

(ID\_operator INT IDENTITY(1,1) PRIMARY KEY,

Name NVARCHAR(50) NOT NULL,

TransportType NVARCHAR(50) NOT NULL,

Address NVARCHAR(100),

TelNumber NVARCHAR(20) UNIQUE,

Email NVARCHAR(100)

)

CREATE TABLE Orders\_fct

(ID\_order INT IDENTITY(1,1) PRIMARY KEY,

ID\_customer INT,

ID\_employee INT,

ID\_operator INT,

ID\_tour INT,

StartDate DATE,

Discount DEC (3,1) CHECK (Discount<100 AND Discount>=0),

CONSTRAINT FK\_Customer FOREIGN KEY (ID\_customer) REFERENCES Customers\_dim(ID\_customer)

ON UPDATE CASCADE

ON DELETE CASCADE,

CONSTRAINT FK\_Employee FOREIGN KEY (ID\_employee) REFERENCES Employees\_dim(ID\_employee)

ON UPDATE CASCADE

ON DELETE CASCADE,

CONSTRAINT FK\_Operator FOREIGN KEY (ID\_operator) REFERENCES Operators\_dim(ID\_operator)

ON UPDATE CASCADE

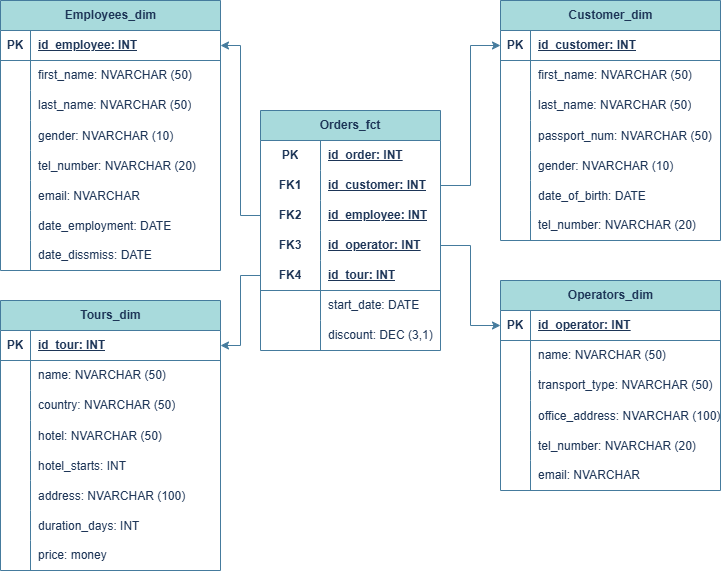
ON DELETE CASCADE,

CONSTRAINT FK\_Tour FOREIGN KEY (ID\_tour) REFERENCES Tours\_dim(ID\_tour)

ON UPDATE CASCADE

ON DELETE CASCADE

)



2)

WITH random\_names

AS ( SELECT DISTINCT 'Name\_' || md5(random()::text) AS first\_name,

'Surname\_' || md5(random()::text) AS last\_name

FROM generate\_series(1, 1000000)

)

INSERT INTO persons (first\_name, last\_name)

SELECT first\_name, last\_name

FROM random\_names

CREATE TABLE people

( id SERIAL PRIMARY KEY,

first\_name TEXT NOT NULL,

last\_name TEXT NOT NULL );

INSERT INTO people (first\_name, last\_name)

SELECT (ARRAY['Алексей', 'Дмитрий', 'Иван', 'Петр', 'Михаил', 'Сергей', 'Андрей', 'Николай', 'Владимир', 'Артем'])[floor(random() \* 10) + 1], (ARRAY['Иванов', 'Петров', 'Сидоров', 'Кузнецов', 'Смирнов', 'Васильев', 'Михайлов', 'Федоров', 'Сергеев', 'Попов'])[floor(random() \* 10) + 1]

FROM generate\_series(1, 1000000);