|  |
| --- |
|  |
|  | create database project\_delivery\_company;  create table Package( |
|  | package\_id integer primary key, |
|  | customer\_id integer references Customer(customer\_id), |
|  | weight numeric(10,5) not null, |
|  | price numeric(10,3) check(price>0), |
|  | from\_city text not null, |
|  | from\_street\_name text not null, |
|  | from\_home\_num integer not null, |
|  | to\_city text not null, |
|  | to\_street\_name text not null, |
|  | to\_home\_num integer not null, |
|  | delivery\_start date not null, |
|  | delivery\_end date not null |
|  | ); |
|  | create table Normal( |
|  | package\_id integer references Package(package\_id), |
|  | type\_of\_package text not null, |
|  | price numeric check(price>0) |
|  | ); |
|  | create table International\_shipment( |
|  | package\_id integer references Package(package\_id), |
|  | declaration\_id integer unique not null, |
|  | contents text not null, |
|  | price numeric(10,3) check(price>0) |
|  |  |
|  | ); |
|  | create table Hazardous\_material( |
|  | package\_id integer references Package(package\_id), |
|  | UN\_id integer unique not null , |
|  | transport\_id integer not null, |
|  | level text not null, |
|  | price numeric(10,3) check(price>0) |
|  | ); |
|  | create table Processing( |
|  | package\_id integer references Package(package\_id), |
|  | employee\_id integer references Employee(employee\_id), |
|  | primary key (package\_id,employee\_id), |
|  | processing\_time date not null |
|  | ); |
|  | create table Customer( |
|  | customer\_id integer primary key, |
|  | first\_name text not null, |
|  | last\_name text not null, |
|  | city text not null, |
|  | street\_name text not null, |
|  | home\_num integer not null, |
|  | date\_of\_birth date, |
|  | num\_orders integer not null, |
|  | status text |
|  | ); |
|  | create table Account( |
|  | account\_id integer, |
|  | customer\_id integer references Customer(customer\_id), |
|  | primary key (account\_id,customer\_id) |
|  | ); |
|  | create table Prepaid\_shipment( |
|  | account\_id integer, |
|  | customer\_id integer, |
|  | foreign key(account\_id,customer\_id) references Account(account\_id,customer\_id), |
|  | package\_id integer references Package(package\_id), |
|  | receipt\_num text not null |
|  | ); |
|  | create table Infrequent\_customer( |
|  | account\_id integer, |
|  | customer\_id integer, |
|  | foreign key(account\_id,customer\_id) references Account(account\_id,customer\_id), |
|  | package\_id integer references Package(package\_id), |
|  | credit\_card\_number text not null |
|  | ); |
|  | create table Contract\_shipment( |
|  | account\_id integer, |
|  | customer\_id integer, |
|  | foreign key(account\_id,customer\_id) references Account(account\_id,customer\_id), |
|  | package\_id integer references Package(package\_id), |
|  | bill\_every\_month numeric not null , |
|  | account\_num text not null , |
|  | months integer not null |
|  |  |
|  | ); |
|  | create table Employee( |
|  | employee\_id integer primary key, |
|  | first\_name text not null, |
|  | last\_name text not null, |
|  | city text not null, |
|  | street\_name text not null, |
|  | home\_num integer not null, |
|  | salary integer not null , |
|  | date\_of\_birth date, |
|  | shift\_at\_work text not null |
|  |  |
|  | ); |
|  | create table Tracking( |
|  | tracking\_id integer , |
|  | del\_transport\_id integer references Transport(transport\_id), |
|  | del\_employee\_id integer references Employee(employee\_id), |
|  | package\_id integer references Package(package\_id), |
|  | primary key (tracking\_id,package\_id), |
|  | status text not null , --created,processed,submitted for delivery,delivered,received,crashed,in the warehouse |
|  | location\_country text, |
|  | location\_city text, |
|  | location\_street\_name text, |
|  | date date not null |
|  | ); |
|  | create table Transport( |
|  | transport\_id integer primary key, |
|  | num\_of\_trips integer not null, |
|  | type text not null, --plane,truck,ship |
|  | cost\_of\_transport integer |
|  | ); |
|  | -----creating indexes |
|  | create index idx\_address\_custom on customer(city,street\_name); |
|  | create index idx\_name\_custom on customer(first\_name,last\_name); |
|  | create index idx\_package\_date on package(delivery\_start,delivery\_end); |
|  | create index idx\_track\_tr on tracking(del\_transport\_id); |