**Додаток Е**

**PostgreSQL-код бази даних**

*DROP SCHEMA public CASCADE;*

*CREATE SCHEMA public;*

*GRANT ALL ON SCHEMA public TO postgres;*

*GRANT ALL ON SCHEMA public TO public;*

*Start Transaction;*

*Savepoint main;*

*Savepoint Client1;*

*CREATE TABLE Client (*

*c\_id\_client Serial,*

*c\_surname VARCHAR(45) NULL,*

*c\_name VARCHAR(45) NULL,*

*c\_middle\_name VARCHAR(45) NULL,*

*c\_Date\_of\_birth DATE NULL,*

*c\_address VARCHAR(45) NULL,*

*c\_phone VARCHAR(45) NULL,*

*PRIMARY KEY (c\_id\_client));*

*Savepoint Type\_of\_tour1;*

*CREATE TABLE Type\_of\_tour (*

*t\_id\_type\_of\_tour Serial,*

*t\_type\_of\_tour VARCHAR(45) NOT NULL,*

*PRIMARY KEY (t\_id\_Type\_of\_tour));*

*Savepoint Accommodation\_type1;*

*CREATE TABLE Accommodation\_type( -- Тип розміщення*

*a\_id\_accommodation\_type Serial,*

*a\_accommodation\_type VARCHAR(45) NOT NULL, -- Тип розміщення*

*PRIMARY KEY (a\_id\_accommodation\_type));*

**Продовження додатку Е**

*Savepoint Country1;*

*CREATE TABLE Country (*

*ct\_id\_country Serial,*

*ct\_name VARCHAR(45) NULL,*

*ct\_creed VARCHAR(45) NULL, -- Віросповідання*

*ct\_attractions VARCHAR(45) NULL, -- Визначні місця*

*ct\_forms\_of\_government VARCHAR(45) NULL,*

*ct\_political\_system VARCHAR(45) NULL,*

*PRIMARY KEY (ct\_id\_country));*

*Savepoint City1;*

*CREATE TABLE City (*

*ci\_id\_city Serial,*

*ci\_name VARCHAR(45) NULL,*

*Country INT NOT NULL,*

*PRIMARY KEY (ci\_id\_city),*

*FOREIGN KEY (Country)*

*REFERENCES Country (ct\_id\_country)*

*ON DELETE CASCADE*

*ON UPDATE CASCADE);*

*Savepoint Hotels1;*

*CREATE TABLE Hotels (*

*h\_id\_hotels Serial,*

*h\_name VARCHAR(45) NULL,*

*h\_type VARCHAR(45) Null,*

*h\_number\_of\_stars INT NULL,*

*h\_price decimal NULL,*

**Продовження додатку Е**

*Accommodation\_type INT NOT NULL,*

*City INT NOT NULL,*

*PRIMARY KEY (h\_id\_hotels),*

*FOREIGN KEY (Accommodation\_type)*

*REFERENCES Accommodation\_type (a\_id\_accommodation\_type)*

*ON DELETE CASCADE*

*ON UPDATE CASCADE,*

*FOREIGN KEY (City)*

*REFERENCES City (ci\_id\_city)*

*ON DELETE CASCADE*

*ON UPDATE CASCADE);*

*Savepoint Flights1;*

*CREATE TABLE Flights (*

*f\_id\_flights Serial,*

*f\_name VARCHAR(45) NULL,*

*f\_city\_of\_departure VARCHAR(45) NULL,*

*f\_date\_time\_of\_departure TIMESTAMP NULL,*

*f\_city\_arrives VARCHAR(45) NULL, -- Місто прильоту*

*f\_date\_time\_arrives TIMESTAMP NULL,*

*PRIMARY KEY (f\_id\_flights));*

*Savepoint Type\_of\_food1;*

*CREATE TABLE Type\_of\_food (*

*tf\_id\_type\_of\_food Serial,*

*tf\_type\_of\_food VARCHAR(45) NULL,*

*PRIMARY KEY (tf\_id\_type\_of\_food));*

**Продовження додатку Е**

*Savepoint Tours1;*

*CREATE TABLE Tours (*

*ts\_id\_tours Serial,*

*ts\_star\_date DATE NULL,*

*ts\_end\_date DATE NULL,*

*ts\_price decimal NULL,*

*Type\_of\_tour INT NOT NULL,*

*Hotels INT NOT NULL,*

*Flights INT NOT NULL,*

*Type\_of\_food INT NOT NULL,*

*PRIMARY KEY (ts\_id\_tours),*

*FOREIGN KEY (Type\_of\_tour)*

*REFERENCES Type\_of\_tour (t\_id\_type\_of\_tour)*

*ON DELETE CASCADE*

*ON UPDATE CASCADE,*

*FOREIGN KEY (Hotels)*

*REFERENCES Hotels (h\_id\_hotels)*

*ON DELETE CASCADE*

*ON UPDATE CASCADE,*

*FOREIGN KEY (Flights)*

*REFERENCES Flights (f\_id\_flights)*

*ON DELETE CASCADE*

*ON UPDATE CASCADE,*

*FOREIGN KEY (Type\_of\_food)*

*REFERENCES Type\_of\_food(tf\_id\_type\_of\_food)*

*ON DELETE CASCADE*

*ON UPDATE CASCADE);*

**Продовження додатку Е**

*Savepoint Sales1;*

*CREATE TABLE Sales (*

*s\_id\_sales Serial,*

*Client INT NOT NULL,*

*s\_count INT NULL,*

*s\_date DATE NULL,*

*Tours INT NOT NULL,*

*PRIMARY KEY (s\_id\_sales),*

*FOREIGN KEY (Client)*

*REFERENCES Client(c\_id\_client)*

*ON DELETE CASCADE*

*ON UPDATE CASCADE,*

*FOREIGN KEY (Tours)*

*REFERENCES Tours(ts\_id\_tours)*

*ON DELETE CASCADE*

*ON UPDATE CASCADE);*

*Savepoint Program1;*

*CREATE TABLE Program (*

*p\_id\_program Serial,*

*p\_type VARCHAR(45) NOT NULL,*

*p\_route VARCHAR(45) NULL,*

*p\_transport VARCHAR(45) NULL,*

*p\_price\_in\_dollars decimal NULL,*

*PRIMARY KEY (p\_id\_program));*

**Закінчення додатку Е**

*Savepoint Tour\_program1;*

*CREATE TABLE Tour\_program (*

*tp\_id\_tour\_program Serial,*

*Program INT NOT NULL,*

*Tours INT NOT NULL,*

*tp\_date DATE NULL,*

*tp\_time TIME NULL,*

*PRIMARY KEY (tp\_id\_tour\_program),*

*FOREIGN KEY (Program)*

*REFERENCES Program(p\_id\_program)*

*ON DELETE CASCADE*

*ON UPDATE CASCADE,*

*FOREIGN KEY (Tours)*

*REFERENCES Tours (ts\_id\_tours)*

*ON DELETE CASCADE*

*ON UPDATE CASCADE)*

*/\**

*rollback to savepoint Client1;*

*rollback to savepoint Type\_of\_tour1;*

*rollback to savepoint Accommodation\_type1;*

*rollback to savepoint Country1;*

*rollback to savepoint City1;*

*rollback to savepoint Hotels1;*

*rollback to savepoint Flights1;*

*rollback to savepoint Type\_of\_food1;*

*rollback to savepoint Tours1;*

*rollback to savepoint Sales1;*

*rollback to savepoint Program1;*

*rollback to savepoint Tour\_program1;*

*rollback to savepoint main;*

*\*/*

*commit;*

*select \* from Hotels;*