CREATE TABLE [Dim\_Time\_In] (

[TimeInID] DATETIME CONSTRAINT pk\_time\_in PRIMARY KEY,

[Day] INT,

[Month] INT,

[Year] INT,

[Hour] INT,

[Minute] INT,

[Second] INT

)

CREATE TABLE [Dim\_Time\_Out] (

[TimeOutID] DATETIME CONSTRAINT pk\_time\_out PRIMARY KEY,

[Day] INT,

[Month] INT,

[Year] INT,

[Hour] INT,

[Minute] INT,

[Second] INT

)

CREATE TABLE [Dim\_Card] (

[id\_Card] int identity(1,1) CONSTRAINT pk\_card PRIMARY KEY,

[payCardID] bigint,

[payCardBank] varchar(100),

[payCardName] varchar(100),

[payCardSex] varchar(50),

[payCardBirthDate] int,

)

CREATE TABLE [Dim\_Corridor] (

[id\_Corridor] int identity(1,1) CONSTRAINT pk\_corridor PRIMARY KEY,

[CorridorID] VARCHAR(50),

[CorridorName] VARCHAR(500)

)

CREATE TABLE [Dim\_Stop\_In] (

[tapInStopsID] int IDENTITY(1,1) CONSTRAINT pk\_stop\_in PRIMARY KEY,

[tapInStops] varchar(100),

[tapInStopsName] varchar(100),

[tapInStopsLat] float,

[tapInStopsLon] float,

[stopStartSeq] int

)

CREATE TABLE [Dim\_Stop\_Out] (

[tapOutStopsID] int IDENTITY(1,1) CONSTRAINT pk\_stop\_out PRIMARY KEY,

[tapOutStops] varchar(100),

[tapOutStopsName] varchar(100),

[tapOutStopsLat] float,

[tapOutStopsLon] float,

[stopEndSeq] int

)

CREATE TABLE [Fact\_Raw] (

[transID] varchar(100) CONSTRAINT pk\_fact\_raw PRIMARY KEY,

[payCardID] bigint,

[corridorID] varchar(50),

[tapInStops] varchar(100),

[tapOutStops] varchar(100),

[tapInTime] datetime,

[tapOutTime] datetime,

[direction] int,

[payAmount] float

)

CREATE TABLE [Fact1] (

[transID] varchar(100) CONSTRAINT pk\_fact1 PRIMARY KEY,

[payCardID] bigint,

[corridorID] varchar(50),

[tapInStops] varchar(100),

[tapOutStops] varchar(100),

[TimeInID] datetime,

[tapOutTime] datetime,

[direction] int,

[payAmount] float,

)

CREATE TABLE [Fact2] (

[transID] varchar(100) CONSTRAINT pk\_fact2 PRIMARY KEY,

[payCardID] bigint,

[corridorID] varchar(50),

[tapInStops] varchar(100),

[tapOutStops] varchar(100),

[TimeInID] datetime,

[TimeOutID] datetime,

[direction] int,

[payAmount] float

)

CREATE TABLE [Fact3] (

[transID] varchar(100) CONSTRAINT pk\_fact3 PRIMARY KEY,

[payCardID] bigint,

[id\_Corridor] int,

[tapInStops] varchar(100),

[tapOutStops] varchar(100),

[TimeInID] datetime,

[TimeOutID] datetime,

[direction] int,

[payAmount] float

)

CREATE TABLE [Fact4] (

[transID] varchar(100) CONSTRAINT pk\_fact4 PRIMARY KEY,

[id\_Card] int,

[id\_Corridor] int,

[tapInStops] varchar(100),

[tapOutStops] varchar(100),

[TimeInID] datetime,

[TimeOutID] datetime,

[direction] int,

[payAmount] float

)

CREATE TABLE [Fact5] (

[transID] varchar(100) CONSTRAINT pk\_fact5 PRIMARY KEY,

[id\_Card] int,

[id\_Corridor] int,

[tapInStopsID] int,

[tapOutStops] varchar(100),

[TimeInID] datetime,

[TimeOutID] datetime,

[direction] int,

[payAmount] float

)

CREATE TABLE [Fact] (

[transID] varchar(100) CONSTRAINT pk\_fact6 PRIMARY KEY,

[id\_Card] int,

[id\_Corridor] int,

[tapInStopsID] int,

[tapOutStopsID] int,

[TimeInID] datetime,

[TimeOutID] datetime,

[direction] int,

[payAmount] float

)

-- Liên kết Fact với Dim\_Card

ALTER TABLE [Fact]

ADD CONSTRAINT fk\_fact\_card

FOREIGN KEY ([id\_Card]) REFERENCES [Dim\_Card]([id\_Card]);

-- Liên kết Fact với Dim\_Corridor

ALTER TABLE [Fact]

ADD CONSTRAINT fk\_fact\_corridor

FOREIGN KEY ([id\_Corridor]) REFERENCES [Dim\_Corridor]([id\_Corridor]);

-- Liên kết Fact với Dim\_Stop\_In

ALTER TABLE [Fact]

ADD CONSTRAINT fk\_fact\_stop\_in

FOREIGN KEY ([tapInStopsID]) REFERENCES [Dim\_Stop\_In]([tapInStopsID]);

-- Liên kết Fact với Dim\_Stop\_Out

ALTER TABLE [Fact]

ADD CONSTRAINT fk\_fact\_stop\_out

FOREIGN KEY ([tapOutStopsID]) REFERENCES [Dim\_Stop\_Out]([tapOutStopsID]);

-- Liên kết Fact với Dim\_Time\_In

ALTER TABLE [Fact]

ADD CONSTRAINT fk\_fact\_time\_in

FOREIGN KEY ([TimeInID]) REFERENCES [Dim\_Time\_In]([TimeInID]);

-- Liên kết Fact với Dim\_Time\_Out

ALTER TABLE [Fact]

ADD CONSTRAINT fk\_fact\_time\_out

FOREIGN KEY ([TimeOutID]) REFERENCES [Dim\_Time\_Out]([TimeOutID]);

-- Xóa liên kết Fact với Dim\_Card

ALTER TABLE [Fact]

DROP CONSTRAINT fk\_fact\_card;

-- Xóa liên kết Fact với Dim\_Corridor

ALTER TABLE [Fact]

DROP CONSTRAINT fk\_fact\_corridor;

-- Xóa liên kết Fact với Dim\_Stop\_In

ALTER TABLE [Fact]

DROP CONSTRAINT fk\_fact\_stop\_in;

-- Xóa liên kết Fact với Dim\_Stop\_Out

ALTER TABLE [Fact]

DROP CONSTRAINT fk\_fact\_stop\_out;

-- Xóa liên kết Fact với Dim\_Time\_In

ALTER TABLE [Fact]

DROP CONSTRAINT fk\_fact\_time\_in;

-- Xóa liên kết Fact với Dim\_Time\_Out

ALTER TABLE [Fact]

DROP CONSTRAINT fk\_fact\_time\_out;

Truncate table fact1;

Truncate table fact2;

Truncate table fact3;

Truncate table fact4;

Truncate table fact5;

Truncate table fact;

Truncate table Dim\_Card;

Truncate table Dim\_Corridor;

Truncate table Dim\_Stop\_In;

Truncate table Dim\_Time\_Out;

Truncate table Dim\_Stop\_Out;

Truncate table Dim\_Time\_In;

Truncate table Fact\_Raw;