CREATE TABLE DIM.customer (

customer\_id INT NOT NULL IDENTITY ,

first\_name VARCHAR(45) NOT NULL,

last\_name VARCHAR(45) NOT NULL,

email VARCHAR(50) DEFAULT NULL,

address\_id INT NOT NULL,

create\_date DATETIME NOT NULL,

PRIMARY KEY NONCLUSTERED (customer\_id),

CONSTRAINT fk\_customer\_address FOREIGN KEY (address\_id) REFERENCES address (address\_id) ON DELETE NO ACTION ON UPDATE CASCADE

)

CREATE TABLE DIM.inventory (

inventory\_id INT NOT NULL IDENTITY,

film\_Name VARCHAR(45) NOT NULL,

store\_id INT NOT NULL,

PRIMARY KEY NONCLUSTERED (inventory\_id),

CONSTRAINT fk\_inventory\_film FOREIGN KEY (film\_id) REFERENCES film (film\_id) ON DELETE NO ACTION ON UPDATE CASCADE

)

CREATE TABLE FACT.payment (

payment\_id int NOT NULL IDENTITY ,

customer\_id INT NOT NULL,

rental\_id INT DEFAULT NULL,

amount DECIMAL(5,2) NOT NULL,

payment\_date DATETIME NOT NULL,

PRIMARY KEY NONCLUSTERED (payment\_id),

CONSTRAINT fk\_payment\_customer FOREIGN KEY (customer\_id) REFERENCES customer (customer\_id) ,

)

CREATE TABLE FACT.rental (

rental\_id INT NOT NULL IDENTITY,

rental\_date DATETIME NOT NULL,

inventory\_id INT NOT NULL,

customer\_id INT NOT NULL,

return\_date DATETIME DEFAULT NULL,

PRIMARY KEY NONCLUSTERED (rental\_id),

CONSTRAINT fk\_rental\_inventory FOREIGN KEY (inventory\_id) REFERENCES inventory (inventory\_id) ,

CONSTRAINT fk\_rental\_customer FOREIGN KEY (customer\_id) REFERENCES customer (customer\_id)

)