CREATE DATABASE Landing;

USE Landing;

CREATE TABLE IF NOT EXISTS Rates(

currency VARCHAR(3),

rate DECIMAL(10,2),

rate\_date DATE

)

COMMENT 'Table for raw rate data'

ROW FORMAT DELIMITED

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\n'

STORED AS TEXTFILE

TBLPROPERTIES("skip.header.line.count"="1");

LOAD DATA INPATH '/user/raj\_ops/TestTask1/rate\_20200101.csv' INTO TABLE Rates;

CREATE TABLE IF NOT EXISTS Product(

product\_code VARCHAR(4),

product\_name VARCHAR(15),

product\_descritpion VARCHAR(25)

)

COMMENT 'Table for raw product data'

ROW FORMAT DELIMITED

FIELDS TERMINATED BY ',' ESCAPED BY '\\'

LINES TERMINATED BY '\n'

STORED AS TEXTFILE

TBLPROPERTIES("skip.header.line.count"="1");

LOAD DATA INPATH '/user/raj\_ops/TestTask1/product\_20200101.csv' INTO TABLE product;

CREATE TABLE IF NOT EXISTS Currency(

currency\_code VARCHAR(3),

currency\_name VARCHAR(20)

)

COMMENT 'Table for raw currency data'

ROW FORMAT DELIMITED

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\n'

STORED AS TEXTFILE

TBLPROPERTIES("skip.header.line.count"="1");

LOAD DATA INPATH '/user/raj\_ops/TestTask1/Currency\_20200101.csv' INTO TABLE currency;

CREATE TABLE IF NOT EXISTS cheque(

order\_code VARCHAR(4),

product\_code VARCHAR(4),

price DECIMAL(10,2),

qnt INT,

currency\_code VARCHAR(3),

shop VARCHAR(30),

order\_date DATE,

order\_comment VARCHAR(50)

)

COMMENT 'Table for raw cheque data'

ROW FORMAT DELIMITED

FIELDS TERMINATED BY ',' ESCAPED BY '\\'

LINES TERMINATED BY '\n'

STORED AS TEXTFILE

TBLPROPERTIES("skip.header.line.count"="1");

LOAD DATA INPATH '/user/raj\_ops/TestTask1/cheque\_20200101.csv' INTO TABLE cheque;

CREATE DATABASE Staging;

USE Staging;

CREATE TABLE IF NOT EXISTS Products(

product\_code VARCHAR(4),

product\_name VARCHAR(50),

product\_description VARCHAR(50),

product\_price\_UAH DECIMAL(10,2)

)

COMMENT 'Handbook of products'

ROW FORMAT DELIMITED

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\n'

STORED AS TEXTFILE;

INSERT INTO TABLE

Staging.Products

SELECT

product.product\_code, product.product\_name, product.product\_descritpion,

MAX(cheque.price\*rates.rate) as price\_in\_UAH

FROM

landing.product INNER JOIN landing.cheque ON product.product\_code = cheque.product\_code

INNER JOIN landing.rates ON rates.currency = cheque.currency\_code

GROUP BY

product.product\_code, product.product\_name, product.product\_descritpion;

CREATE TABLE IF NOT EXISTS Currency(

currency\_code VARCHAR(3),

currency\_name VARCHAR(20)

)

COMMENT 'Handbook of currencies'

ROW FORMAT DELIMITED

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\n'

STORED AS TEXTFILE;

WITH cte\_currency AS(

SELECT \* FROM landing.Currency

)

INSERT INTO TABLE staging.currency

SELECT \* FROM cte\_currency;

CREATE TABLE IF NOT EXISTS Rates(

currency VARCHAR(3),

rate DECIMAL(10,2),

rate\_date DATE

)

COMMENT 'Currency rate'

ROW FORMAT DELIMITED

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\n'

STORED AS TEXTFILE;

CREATE TEMPORARY TABLE temp\_rates AS SELECT \* FROM landing.rates;

INSERT INTO TABLE staging.rates

SELECT \* FROM temp\_rates;

CREATE TABLE IF NOT EXISTS Orders(

order\_code VARCHAR(4),

order\_date DATE,

shop VARCHAR(35),

total\_sum DECIMAL(10,2)

)

COMMENT 'Orders list';

INSERT INTO TABLE

staging.orders

SELECT

cheque.order\_code, cheque.order\_date, cheque.shop,

SUM(cheque.price\*cheque.qnt\*rates.rate)

FROM

landing.cheque INNER JOIN landing.rates

ON rates.currency = cheque.currency\_code

GROUP BY

cheque.order\_code, cheque.order\_date, cheque.shop;

CREATE TABLE IF NOT EXISTS order\_details (

order\_code VARCHAR(4),

product\_code VARCHAR(4),

quantity INT,

commentary VARCHAR(200),

currency\_code VARCHAR(4),

price DECIMAL(10,2)

)

COMMENT 'Order details'

ROW FORMAT DELIMITED

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\n'

STORED AS TEXTFILE;

INSERT INTO TABLE

staging.order\_details

SELECT

cheque.order\_code, cheque.product\_code, cheque.qnt, cheque.order\_comment,

cheque.currency\_code, cheque.price

FROM

landing.cheque;