

```
CREATE PROCEDURE STAR_INSERT
AS
BEGIN
```

```
ALTER TABLE PRODUCTDIM
DROP
CONSTRAINT PK_PRODUCTID
```

```
ALTER TABLE TIMEDIM
DROP
CONSTRAINT PK_TIMEID
```

```
ALTER TABLE CUSTOMERDIM
DROP
CONSTRAINT PK_CUSTOMERID
```

```
ALTER TABLE EMPLOYEEEDIM
DROP
CONSTRAINT PK_EMPLOYEEID
```

```
ALTER TABLE FACT
DROP
CONSTRAINT
FK_FACT_1,
FK_FACT_2,
FK_FACT_3,
FK_FACT_4
```

```
TRUNCATE TABLE PRODUCTDIM
TRUNCATE TABLE TIMEDIM
TRUNCATE TABLE CUSTOMERDIM
TRUNCATE TABLE EMPLOYEEEDIM
TRUNCATE TABLE FACT
```

```
INSERT INTO CUSTOMERDIM (CUST_CODE, CUST_FNAME, CUST_LNAME, CUST_CITY, CUST_STATE,
CUST_ZIP)
SELECT CUST_CODE, CUST_FNAME, CUST_LNAME, CUST_CITY, CUST_STATE, CUST_ZIP
FROM LGCUSTOMER
```

```
INSERT INTO EMPLOYEEEDIM (EMP_NUM, EMP_FNAME, EMP_LNAME, EMP_TITLE, DEPT_NUM)
SELECT EMP_NUM, EMP_FNAME, EMP_LNAME, EMP_TITLE, DEPT_NUM
FROM LGEMPLOYEE
```

```
INSERT INTO PRODUCTDIM (PROD_SKU, PROD_DESCRIPTION, PROD_TYPE, LGPRODUCT.BRAND_ID,
BRAND_NAME, BRAND_TYPE)
SELECT PROD_SKU, PROD_DESCRIPTOR, PROD_TYPE, lgproduct.BRAND_ID, BRAND_NAME,
BRAND_TYPE
FROM LGPRODUCT INNER JOIN LGBRAND ON lgproduct.brand_id = lgbrand.brand_id
```

```

INSERT INTO TIMEDIM
    (INV_DATE, INV_YEAR, INV_MONTH)
SELECT INV_DATE, YEAR(INV_DATE) AS INV_YEAR, MONTH(INV_DATE) AS INV_MONTH
FROM LGINVOICE

```

```

ALTER TABLE PRODUCTDIM
ADD CONSTRAINT PK_PRODUCTDIM PRIMARY KEY(PRODUCT_ID)

```

```

ALTER TABLE TIMEDIM
ADD CONSTRAINT PK_TIMEID PRIMARY KEY(TIME_ID)

```

```

ALTER TABLE CUSTOMERDIM
ADD CONSTRAINT PK_CUSTOMERID PRIMARY KEY(CUSTOMER_ID)

```

```

ALTER TABLE EMPLOYEEEDIM
ADD CONSTRAINT PK_EMPLOYEEID PRIMARY KEY(EMPLOYEE_ID)

```

```

ALTER TABLE FACT
ADD
CONSTRAINT PK_FACT PRIMARY KEY(PRODUCT_ID, TIME_ID, CUSTOMER_ID, EMPLOYEE_ID)

```

```

ALTER TABLE FACT
ADD
CONSTRAINT FK_FACT_1 FOREIGN KEY(PRODUCT_ID)REFERENCES PRODUCTDIM,
CONSTRAINT FK_FACT_2 FOREIGN KEY(TIME_ID)REFERENCES TIMEDIM,
CONSTRAINT FK_FACT_3 FOREIGN KEY(CUSTOMER_ID)REFERENCES CUSTOMERDIM,
CONSTRAINT FK_FACT_4 FOREIGN KEY(EMPLOYEE_ID)REFERENCES EMPLOYEEEDIM

```

```

-----

CREATE TABLE STAGING
(
    CUST_ID INT NOT NULL,
    EMP_ID INT NOT NULL,
    DEPT_ID INT NOT NULL,
    PROD_ID INT NOT NULL,
    TIME_ID INT NOT NULL,
    CUST_CODE INT NOT NULL,
    EMP_NUM INT NOT NULL,
    DEPT_NUM INT NOT NULL,
    PROD_SKU NVARCHAR(15) NOT NULL,
    INV_DATE DATETIME NOT NULL,
    LINE_QTY FLOAT,
    LINE_PRICE DECIMAL(8,2)
)

--INSERT STATEMENTS TO POPULATE STAGING TABLE
INSERT INTO STAGING
    (CUST_CODE, EMP_NUM, DEPT_NUM, PROD_SKU, INV_DATE, LINE_QTY, LINE_PRICE)
SELECT C.CUST_CODE, E.EMP_NUM, D.DEPT_NUM, P.PROD_SKU, I.INV_DATE,
LINE_QTY, LINE_PRICE
FROM LGCUSTOMER C INNER JOIN LGINVOICE I ON C.CUST_CODE = I.CUST_CODE
INNER JOIN LGLINE L ON I.INV_NUM =
L.INV_NUM

```

P.PROD\_SKU  
=  
E.EMP\_NUM  
D.DEPT\_NUM

INNER JOIN LGPRODUCT P ON L.PROD\_SKU =  
INNER JOIN LGEMPLOYEE E ON I.EMPLOYEE\_ID  
INNER JOIN LGDEPARTMENT D ON E.DEPT\_NUM =

```
UPDATE STAGING
SET CUST_ID = C.CUSTOMER_ID
FROM STAGING S INNER JOIN CUSTOMERDIM C
ON S.CUST_CODE = C.CUST_CODE
```

```
UPDATE STAGING
SET EMP_ID = E.EMPLOYEE_ID
FROM STAGING S INNER JOIN EMPLOYEEEDIM E
ON S.EMP_NUM = E.EMP_NUM
```

```
UPDATE STAGING
SET PROD_ID = P.PRODUCT_ID
FROM STAGING S INNER JOIN PRODUCTDIM P
ON S.PROD_SKU = P.PROD_SKU
```

```
UPDATE STAGING
SET TIME_ID = T.TIME_ID
FROM STAGING S INNER JOIN TIMEDIM T
ON S.INV_DATE = T.INV_DATE
```

```
INSERT INTO FACT
(CUST_ID, EMP_ID, DEPT_ID, PROD_ID, TIME_ID, LINE_QTY, LINE_PRICE)
SELECT CUST_ID, EMP_ID, DEPT_ID, PROD_ID, TIME_ID, LINE_QTY, LINE_PRICE
FROM STAR_STAGING
```