MAPPING STORE PROCEDURE

CREATE OR REPLACE PROCEDURE MAPPING\_PARTA AS

Dim OSS\_TIME\_DIM%ROWTYPE;

InnerJoinStatement varchar2(1000);

TableMax number;

TableCounter number := 1;

TableCounterr number := 2;

ParentNo number;

DescNo number;

BEGIN

FOR i IN 0..3 LOOP

EXECUTE IMMEDIATE ('DROP TABLE OSS\_TIME\_DIM\_'||i);

END LOOP;

FOR I IN 0..3 LOOP

TableMax := I + 2;

ParentNo := I + 1;

DescNo:= I + 2;

InnerJoinStatement := InnerJoinStatement ||

'CREATE TABLE OSS\_TIME\_DIM\_'||I||' AS

(

SELECT hc1.time\_key,

hc1.time\_level,

hc'||ParentNo||'.parent\_id,

hc'||DescNo||'.time\_desc

FROM OSS\_TIME\_DIM HC'||TableCounter;

WHILE (TableCounter < TableMax) LOOP

TableCounterr := TableCounter + 1;

InnerJoinStatement := InnerJoinStatement ||

' INNER JOIN OSS\_TIME\_DIM HC'||TableCounterr||

' ON (hc'||TableCounter||'.parent\_id = hc'||TableCounterr||'.time\_key)';

TableCounter := TableCounter + 1;

END LOOP;

TableCounter := 1;

EXECUTE IMMEDIATE (InnerJoinStatement || ')');

InnerJoinStatement := '';

END LOOP;

END MAPPING\_PARTA;

PartA Execute

CREATE TABLE OSS\_TIME\_DIM\_0(time\_id varchar2(4));

CREATE TABLE OSS\_TIME\_DIM\_1(time\_id varchar2(4));

CREATE TABLE OSS\_TIME\_DIM\_2(time\_id varchar2(4));

CREATE TABLE OSS\_TIME\_DIM\_3(time\_id varchar2(4));

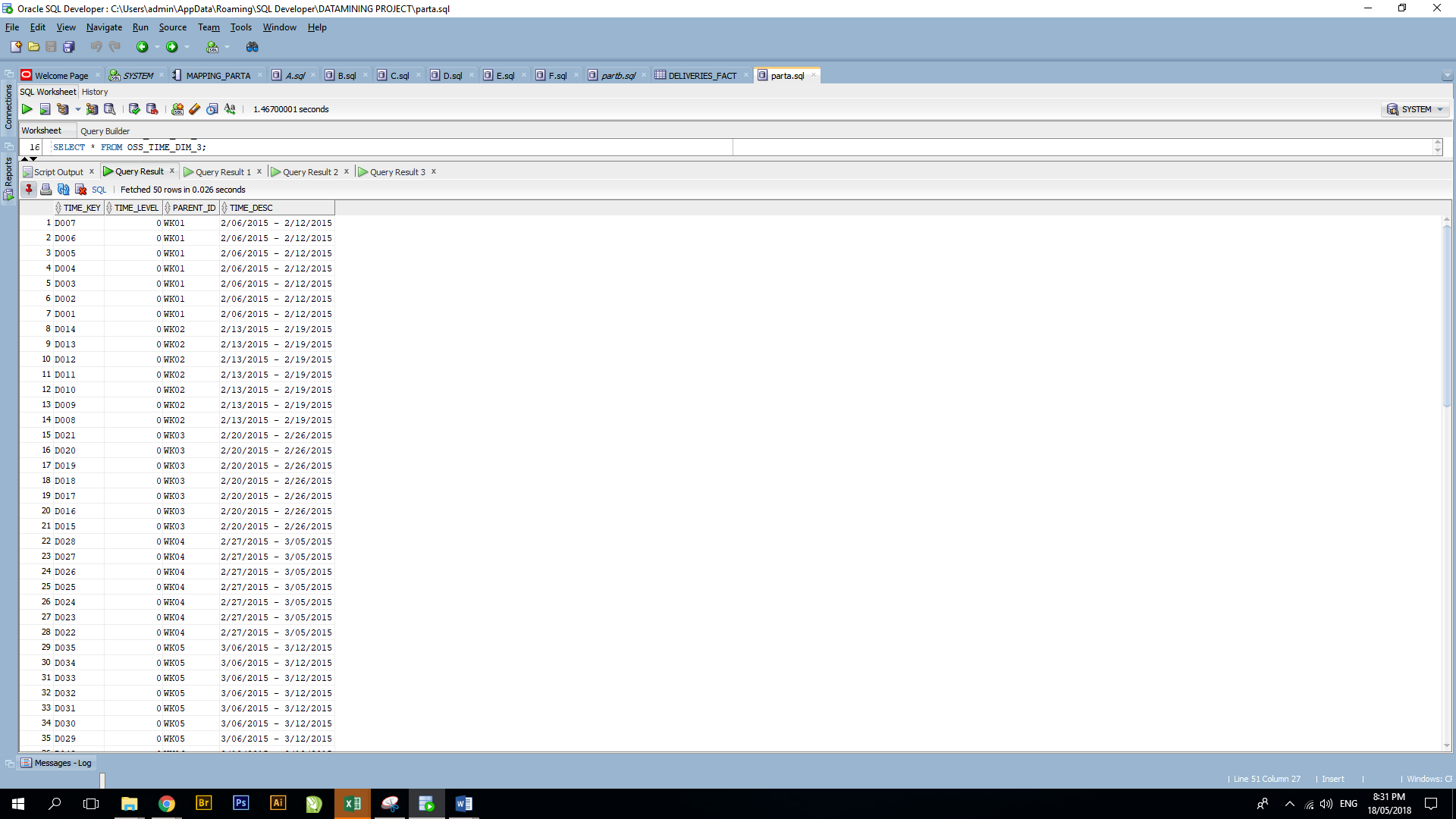
execute MAPPING\_PARTA();

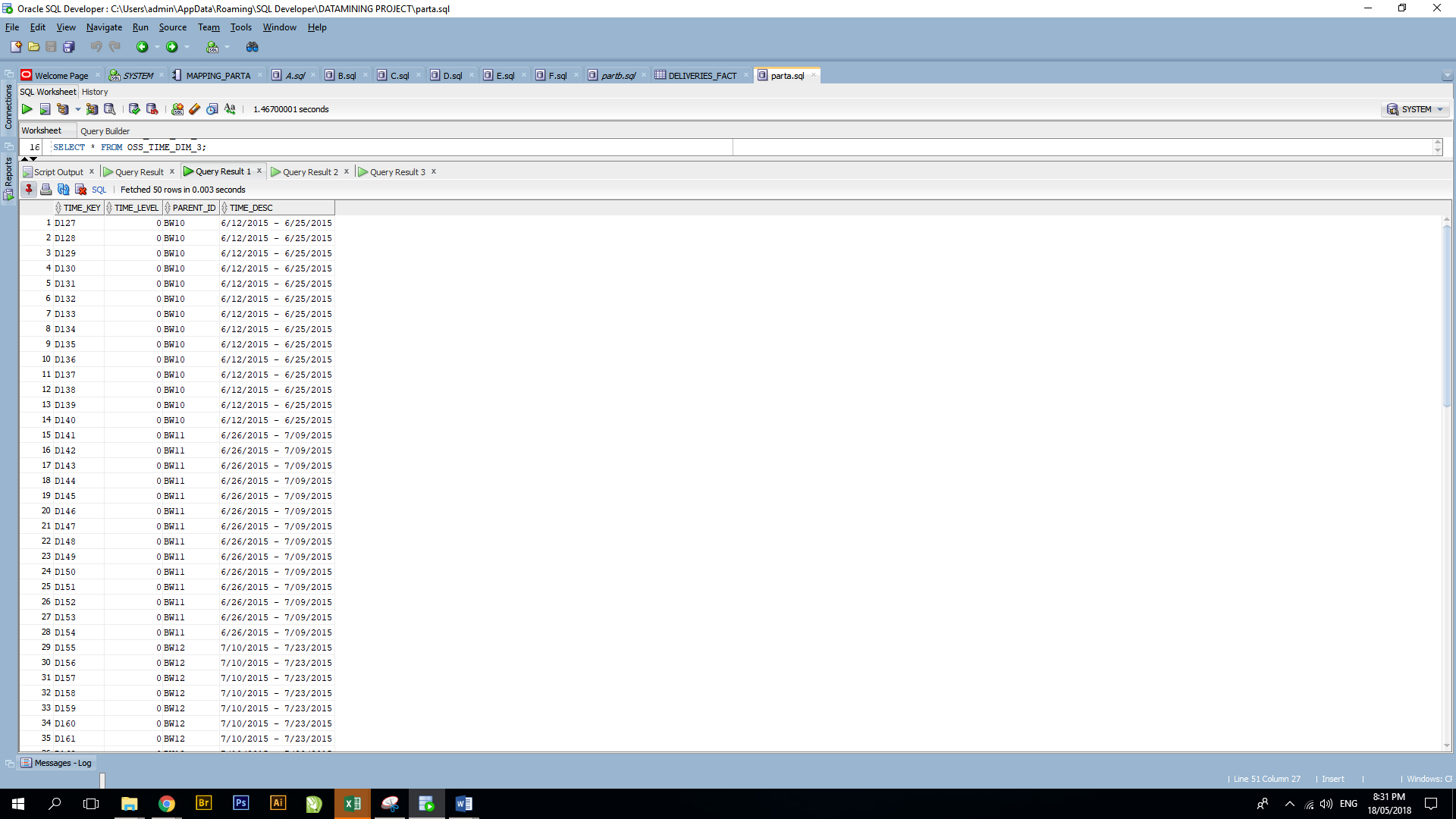
SELECT \* FROM OSS\_TIME\_DIM\_0;

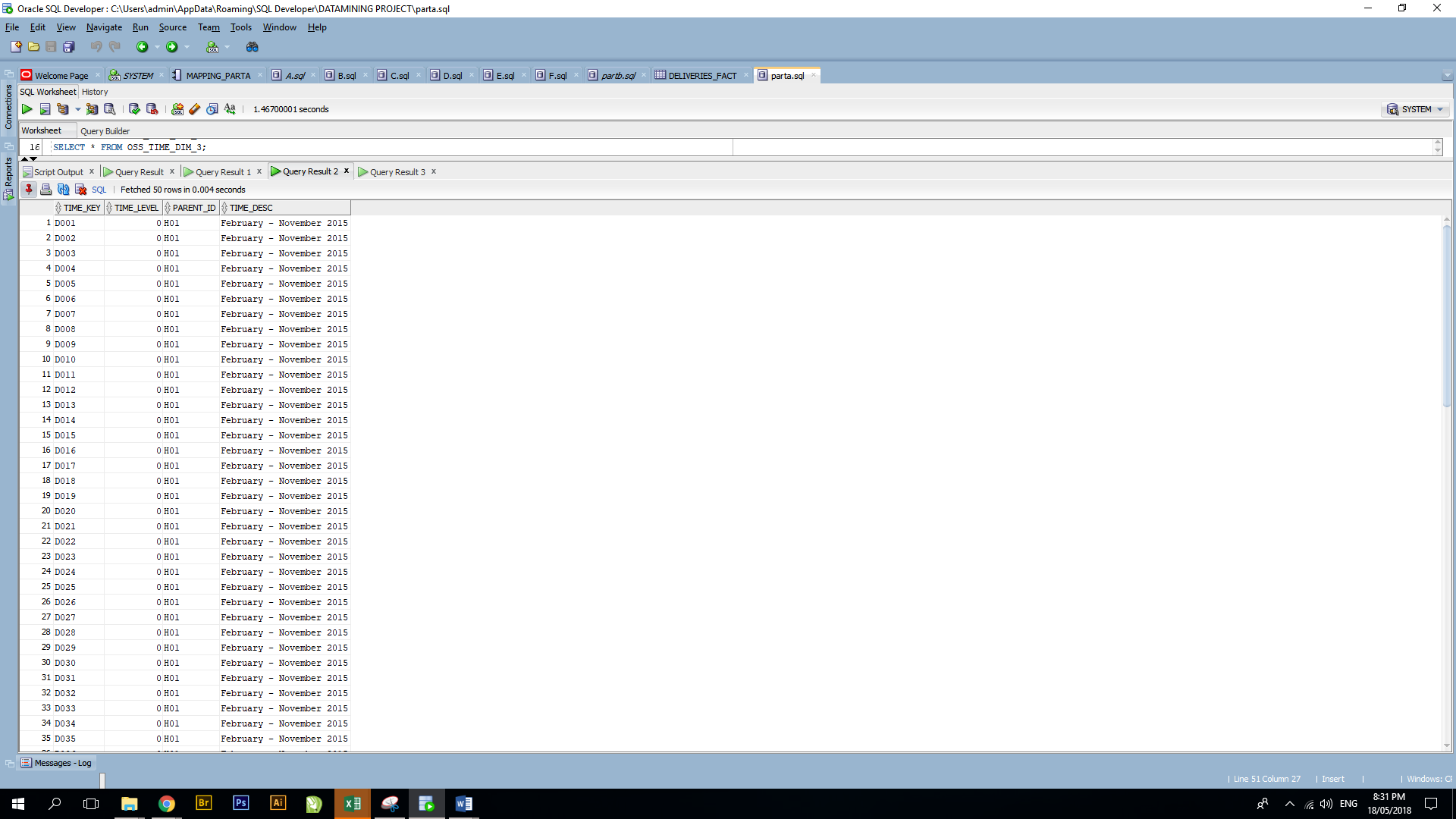
SELECT \* FROM OSS\_TIME\_DIM\_1;

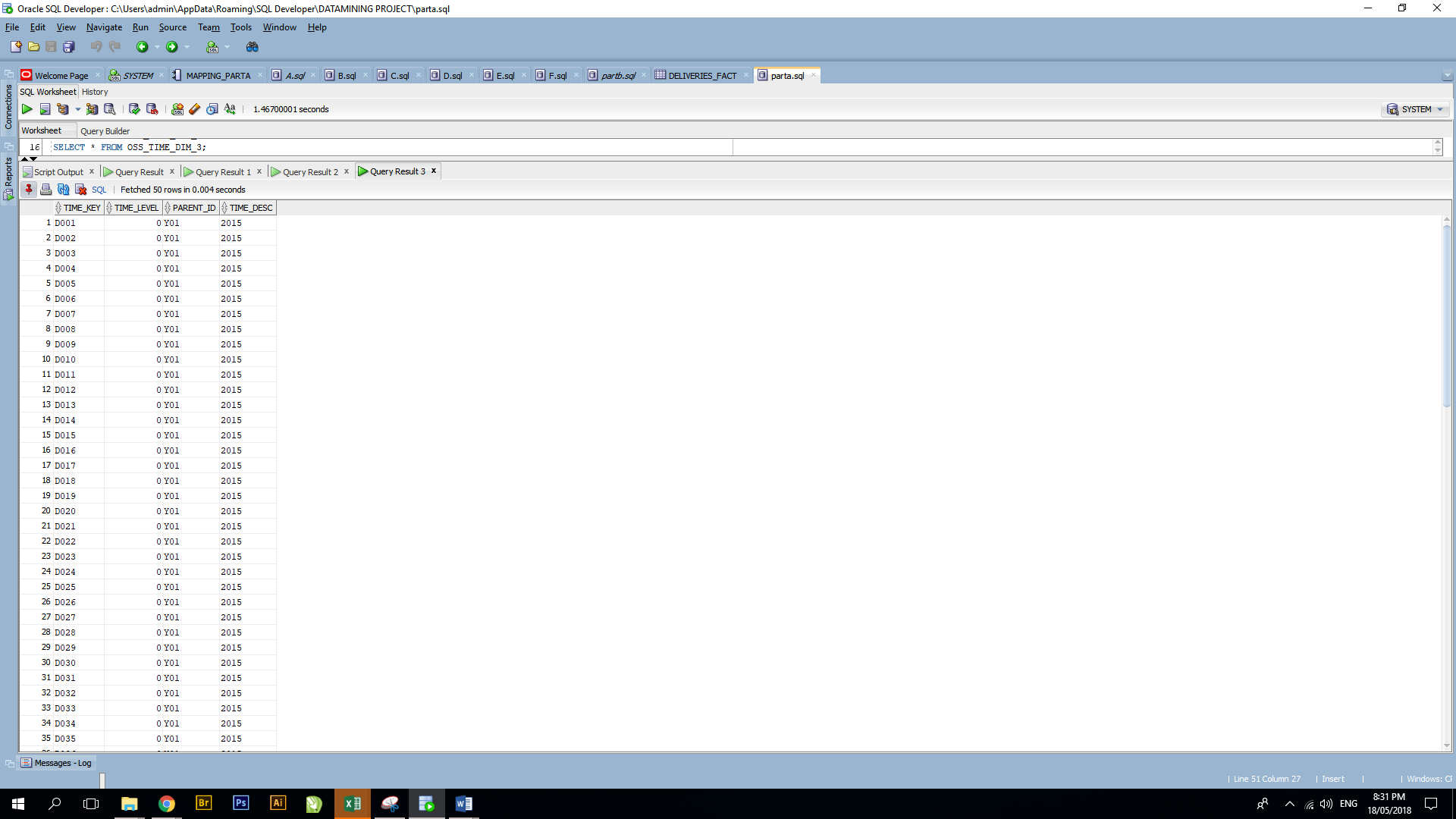
SELECT \* FROM OSS\_TIME\_DIM\_2;

SELECT \* FROM OSS\_TIME\_DIM\_3;









DELIVERIES\_FACT

set serveroutput on

DECLARE

CURSOR SS IS

SELECT \*

FROM SUPER\_STORE;

CURSOR HC IS

SELECT \*

FROM OSS\_TIME\_DIM

ORDER BY time\_id DESC;

CURSOR HC0 IS

SELECT \*

FROM OSS\_TIME\_DIM\_0;

CURSOR HC1 IS

SELECT \*

FROM OSS\_TIME\_DIM\_1;

CURSOR HC2 IS

SELECT \*

FROM OSS\_TIME\_DIM\_2;

CURSOR HC3 IS

SELECT \*

FROM OSS\_TIME\_DIM\_3;

Dim OSS\_TIME\_DIM%ROWTYPE;

Dim0 OSS\_TIME\_DIM\_0%ROWTYPE;

Dim1 OSS\_TIME\_DIM\_1%ROWTYPE;

Dim2 OSS\_TIME\_DIM\_2%ROWTYPE;

Dim3 OSS\_TIME\_DIM\_3%ROWTYPE;

ssds SUPER\_STORE%ROWTYPE;

BEGIN

EXECUTE IMMEDIATE ('DROP TABLE DELIVERIES\_FACT');

EXECUTE IMMEDIATE ('CREATE TABLE DELIVERIES\_FACT AS (

SELECT \*

FROM SUPER\_STORE)');

EXECUTE IMMEDIATE ('ALTER TABLE DELIVERIES\_FACT

ADD Da varchar2(10)');

EXECUTE IMMEDIATE ('ALTER TABLE DELIVERIES\_FACT

ADD WK varchar2(10)');

EXECUTE IMMEDIATE ('ALTER TABLE DELIVERIES\_FACT

ADD BW varchar2(10)');

EXECUTE IMMEDIATE ('ALTER TABLE DELIVERIES\_FACT

ADD Mo varchar2(10)');

EXECUTE IMMEDIATE ('ALTER TABLE DELIVERIES\_FACT

ADD Qu varchar2(10)');

EXECUTE IMMEDIATE ('ALTER TABLE DELIVERIES\_FACT

ADD HY varchar2(10)');

EXECUTE IMMEDIATE ('ALTER TABLE DELIVERIES\_FACT

ADD Ye varchar2(10)');

OPEN HC;

LOOP

FETCH HC INTO Dim;

-- EXIT WHEN (Dim.TIME\_LEVEL = 2);

EXIT WHEN HC%NOTFOUND;

-- dbms\_output.put\_line('UPDATE DELIVERIES\_FACT

-- SET Ye='''||Dim.time\_key||'''

-- WHERE ship\_date LIKE ''%'||Dim.time\_desc||'''');

IF (Dim.time\_level = 6) THEN

dbms\_output.put\_line('after LEVEL 6');

EXECUTE IMMEDIATE ('UPDATE DELIVERIES\_FACT

SET Ye='''||Dim.time\_key||'''

WHERE ship\_date LIKE ''%'||Dim.time\_desc||'''');

ELSIF (Dim.time\_level = 5) THEN

dbms\_output.put\_line('after LEVEL 5');

EXECUTE IMMEDIATE ('UPDATE DELIVERIES\_FACT

SET HY='''||Dim.time\_key||'''

WHERE Ye='''||Dim.parent\_id||'''');

ELSIF (Dim.time\_level = 4) THEN

dbms\_output.put\_line('after LEVEL 4');

EXECUTE IMMEDIATE ('UPDATE DELIVERIES\_FACT

SET Qu='''||Dim.time\_key||'''

WHERE HY='''||Dim.parent\_id||'''');

ELSIF (Dim.time\_level = 3) THEN

dbms\_output.put\_line('after LEVEL 3');

EXECUTE IMMEDIATE ('UPDATE DELIVERIES\_FACT

SET Mo='''||Dim.time\_key||'''

WHERE Qu='''||Dim.parent\_id||'''');

ELSIF (Dim.time\_level = 0) THEN

-- dbms\_output.put\_line('after LEVEL 0');

EXECUTE IMMEDIATE ('UPDATE DELIVERIES\_FACT

SET Da='''||Dim.time\_key||'''

WHERE ship\_date='''||Dim.time\_desc||'''');

END IF;

END LOOP;

dbms\_output.put\_line('after exit');

CLOSE HC;

OPEN HC0;

LOOP

FETCH HC0 INTO Dim0;

EXIT WHEN HC0%NOTFOUND;

IF (Dim0.parent\_id LIKE '%M%') THEN

EXECUTE IMMEDIATE ('UPDATE DELIVERIES\_FACT

SET Mo='''||Dim0.parent\_id||'''

WHERE Da='''||Dim0.time\_key||'''');

ELSIF (Dim0.parent\_id LIKE '%WK%') THEN

EXECUTE IMMEDIATE ('UPDATE DELIVERIES\_FACT

SET Wk='''||Dim0.parent\_id||'''

WHERE Da='''||Dim0.time\_key||'''');

END IF;

END LOOP;

CLOSE HC0;

OPEN HC1;

LOOP

FETCH HC1 INTO Dim1;

EXIT WHEN HC1%NOTFOUND;

IF (Dim1.parent\_id LIKE '%BW%') THEN

EXECUTE IMMEDIATE ('UPDATE DELIVERIES\_FACT

SET Bw='''||Dim1.parent\_id||'''

WHERE Da='''||Dim1.time\_key||'''');

END IF;

END LOOP;

CLOSE HC1;

OPEN HC2;

LOOP

FETCH HC2 INTO Dim2;

EXIT WHEN HC2%NOTFOUND;

IF (Dim2.parent\_id LIKE '%BW%') THEN

EXECUTE IMMEDIATE ('UPDATE DELIVERIES\_FACT

SET Ho='''||Dim2.parent\_id||'''

WHERE Da='''||Dim2.time\_key||'''');

END IF;

END LOOP;

CLOSE HC2;

OPEN HC3;

LOOP

FETCH HC3 INTO Dim3;

EXIT WHEN HC3%NOTFOUND;

IF (Dim3.parent\_id LIKE '%BW%') THEN

EXECUTE IMMEDIATE ('UPDATE DELIVERIES\_FACT

SET Bw='''||Dim3.parent\_id||'''

WHERE Da='''||Dim3.time\_key||'''');

END IF;

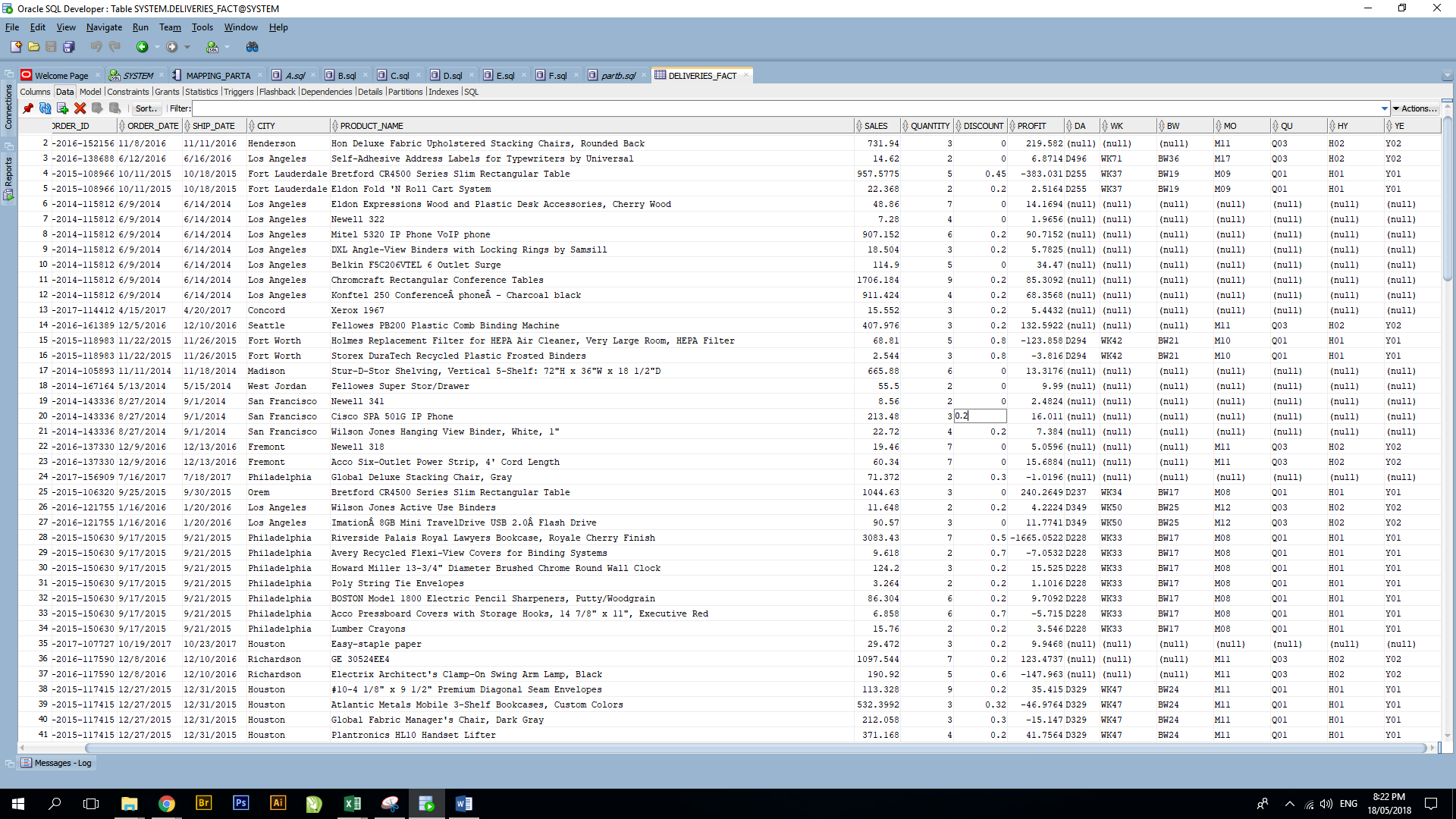
END LOOP;

CLOSE HC3;

END;

/

SELECT \* FROM DELIVERIES\_FACT;

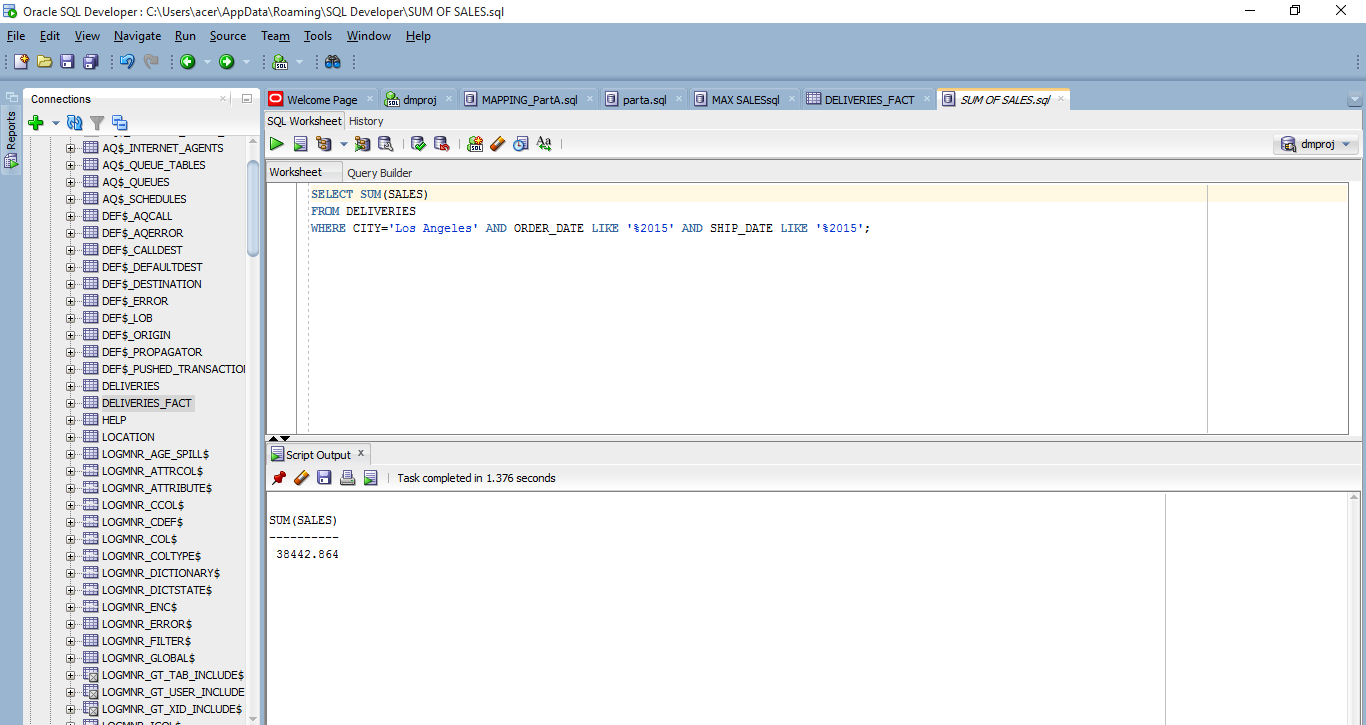


A: SUM OF SALES

SELECT SUM(SALES)

FROM DELIVERIES\_FACT

WHERE CITY='Los Angeles' AND ORDER\_DATE LIKE '%2015' AND SHIP\_DATE LIKE '%2015';



B:

DROP TABLE LETTERB;

create table LETTERB AS

(

SELECT DEL.ROW\_ID, DEL.ORDER\_ID, DEL.ORDER\_DATE, DEL.SHIP\_DATE,

DEL.CITY AS LOCATION,

DEL.PRODUCT\_NAME,

DEL.SALES, DEL.QUANTITY, DEL.DISCOUNT,DEL.PROFIT,

OTD.TIME\_KEY,

OTD.PARENT\_ID,

OTD.TIME\_DESC

FROM DELIVERIES DEL

RIGHT OUTER JOIN OSS\_TIME\_DIM OTD

ON

DEL.SHIP\_DATE = OTD.TIME\_DESC

);

DROP TABLE LET\_B;

CREATE TABLE LET\_B AS

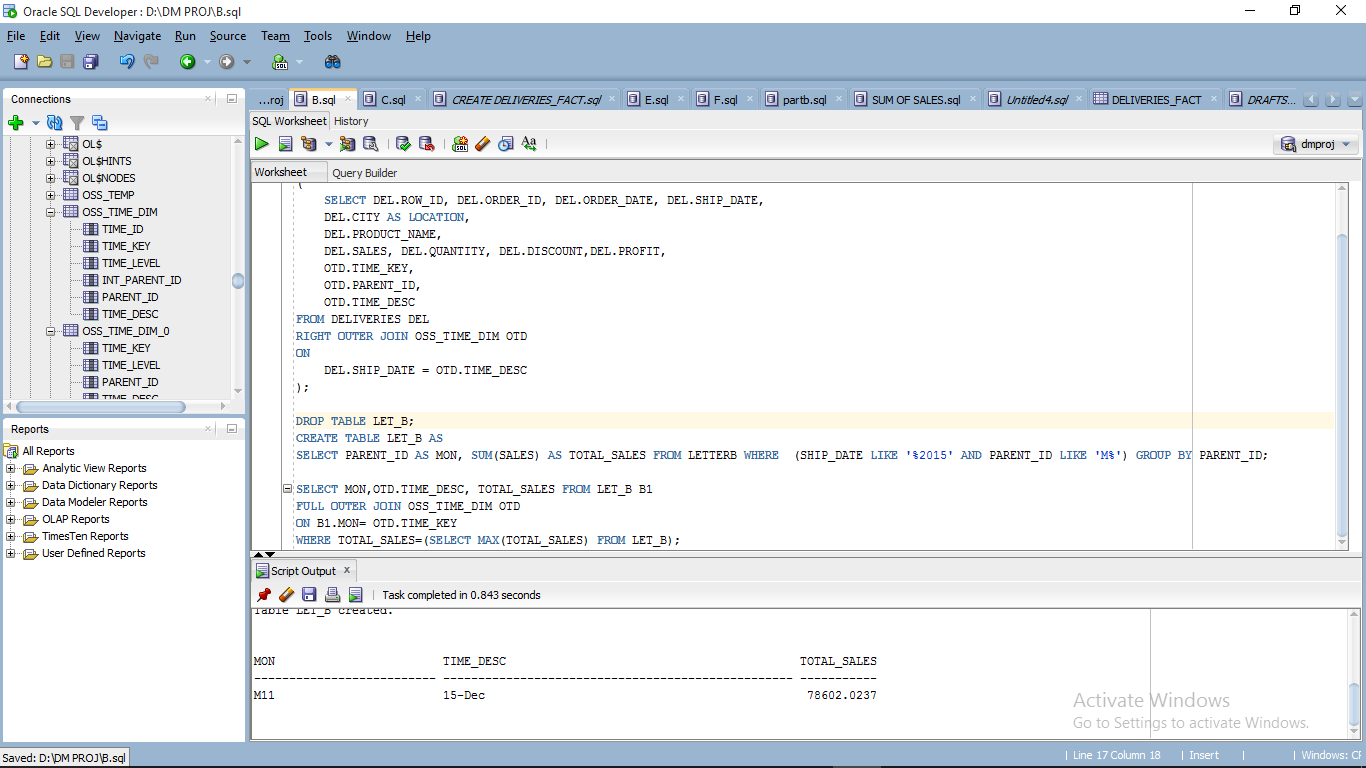
SELECT PARENT\_ID AS MON, SUM(SALES) AS TOTAL\_SALES FROM LETTERB WHERE (SHIP\_DATE LIKE '%2015' AND PARENT\_ID LIKE 'M%') GROUP BY PARENT\_ID;

SELECT MON,OTD.TIME\_DESC, TOTAL\_SALES FROM LET\_B B1

FULL OUTER JOIN OSS\_TIME\_DIM OTD

ON B1.MON= OTD.TIME\_KEY

WHERE TOTAL\_SALES=(SELECT MAX(TOTAL\_SALES) FROM LET\_B);



C.

DROP TABLE LETTERC;

create table LETTERC AS

(

SELECT DEL.ROW\_ID, DEL.ORDER\_ID, DEL.ORDER\_DATE, DEL.SHIP\_DATE,

DEL.CITY AS LOCATION,

DEL.PRODUCT\_NAME,

DEL.SALES, DEL.QUANTITY, DEL.DISCOUNT,DEL.PROFIT,

OTD.TIME\_KEY,

OTD.PARENT\_ID,

OTD.TIME\_DESC

FROM DELIVERIES DEL

RIGHT OUTER JOIN OSS\_TIME\_DIM OTD

ON

DEL.SHIP\_DATE = OTD.TIME\_DESC

);

DROP TABLE LET\_C;

CREATE TABLE LET\_C AS

SELECT PARENT\_ID AS MON, SUM(PROFIT) AS TOTAL\_PROFIT FROM LETTERC WHERE (SHIP\_DATE LIKE '%2015' AND PARENT\_ID LIKE 'M%') GROUP BY PARENT\_ID ORDER BY TOTAL\_PROFIT DESC;

SELECT \* FROM LET\_C;

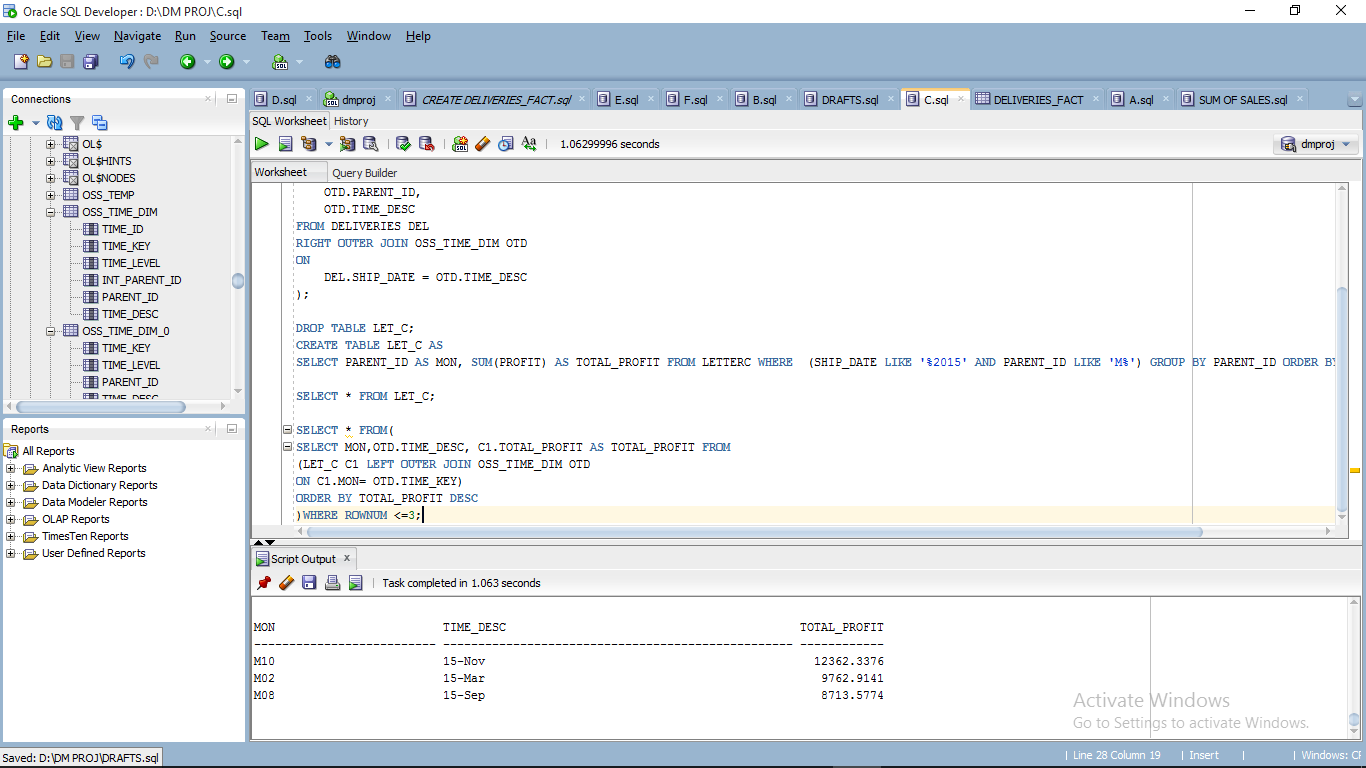
SELECT \* FROM(

SELECT MON,OTD.TIME\_DESC, C1.TOTAL\_PROFIT AS TOTAL\_PROFIT FROM

(LET\_C C1 LEFT OUTER JOIN OSS\_TIME\_DIM OTD

ON C1.MON= OTD.TIME\_KEY)

ORDER BY TOTAL\_PROFIT DESC

)WHERE ROWNUM <=3; 

D.

DROP TABLE LETTERD;

create table LETTERD AS

(

SELECT DEL.ROW\_ID, DEL.ORDER\_ID, DEL.ORDER\_DATE, DEL.SHIP\_DATE,

DEL.CITY AS LOCATION,

DEL.PRODUCT\_NAME,

DEL.SALES, DEL.QUANTITY, DEL.DISCOUNT,DEL.PROFIT,

OTD.TIME\_KEY,

OTD.PARENT\_ID,

OTD.TIME\_DESC

FROM DELIVERIES DEL

RIGHT OUTER JOIN OSS\_TIME\_DIM OTD

ON

DEL.SHIP\_DATE = OTD.TIME\_DESC

);

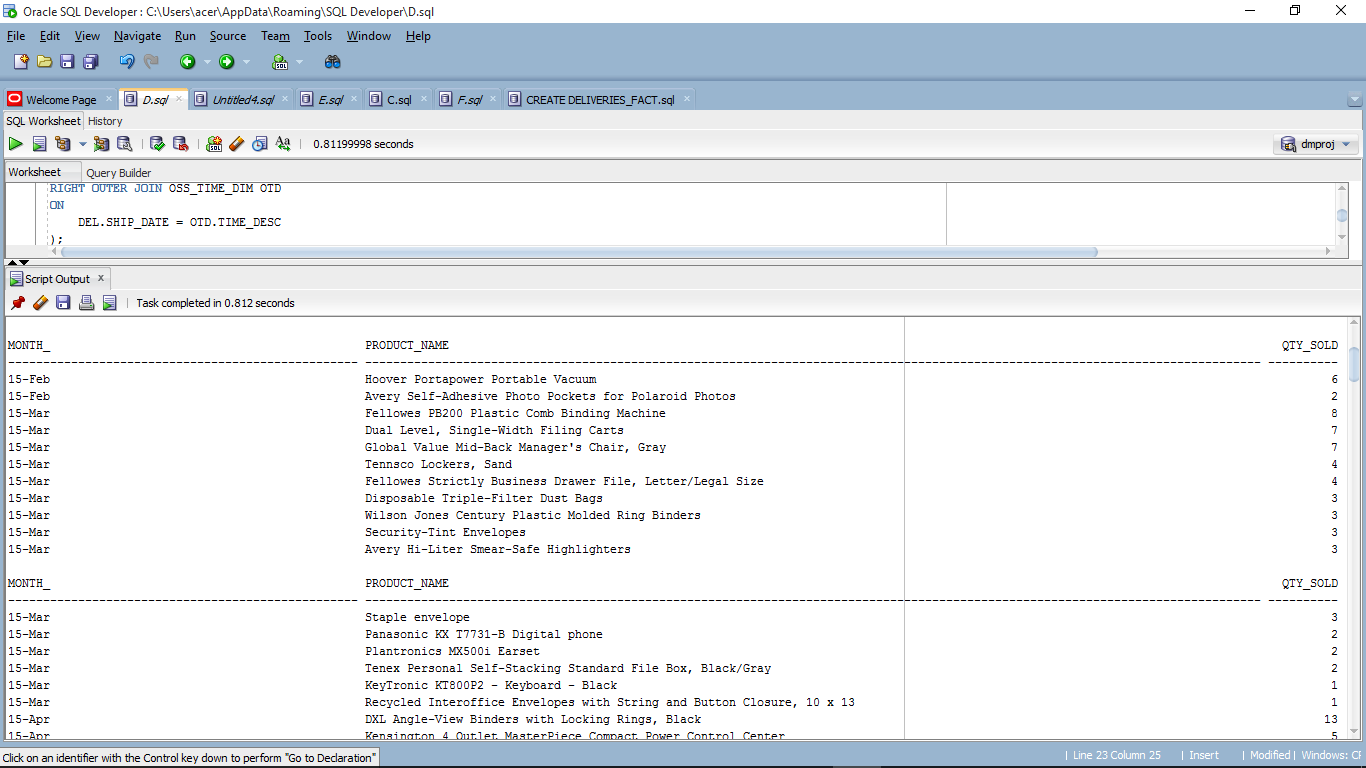
DROP TABLE LET\_D;

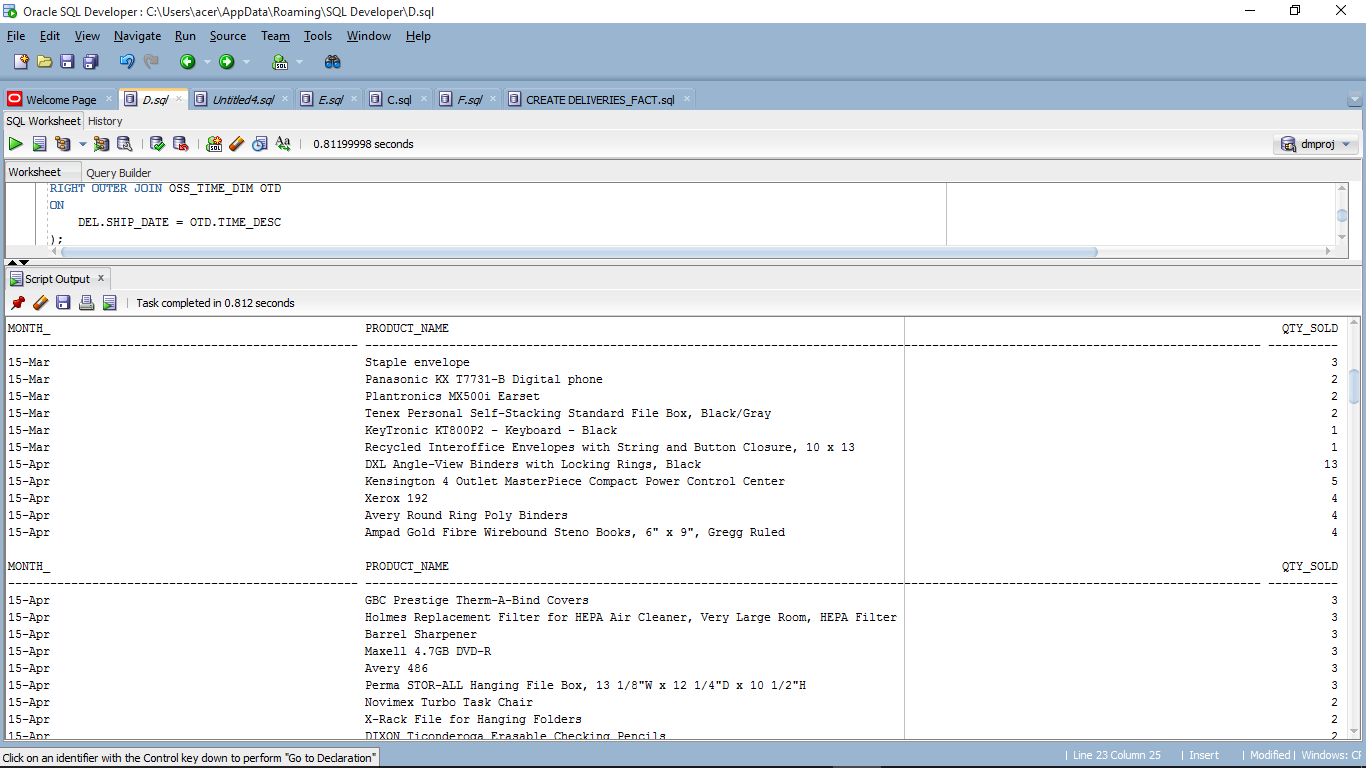
CREATE TABLE LET\_D AS

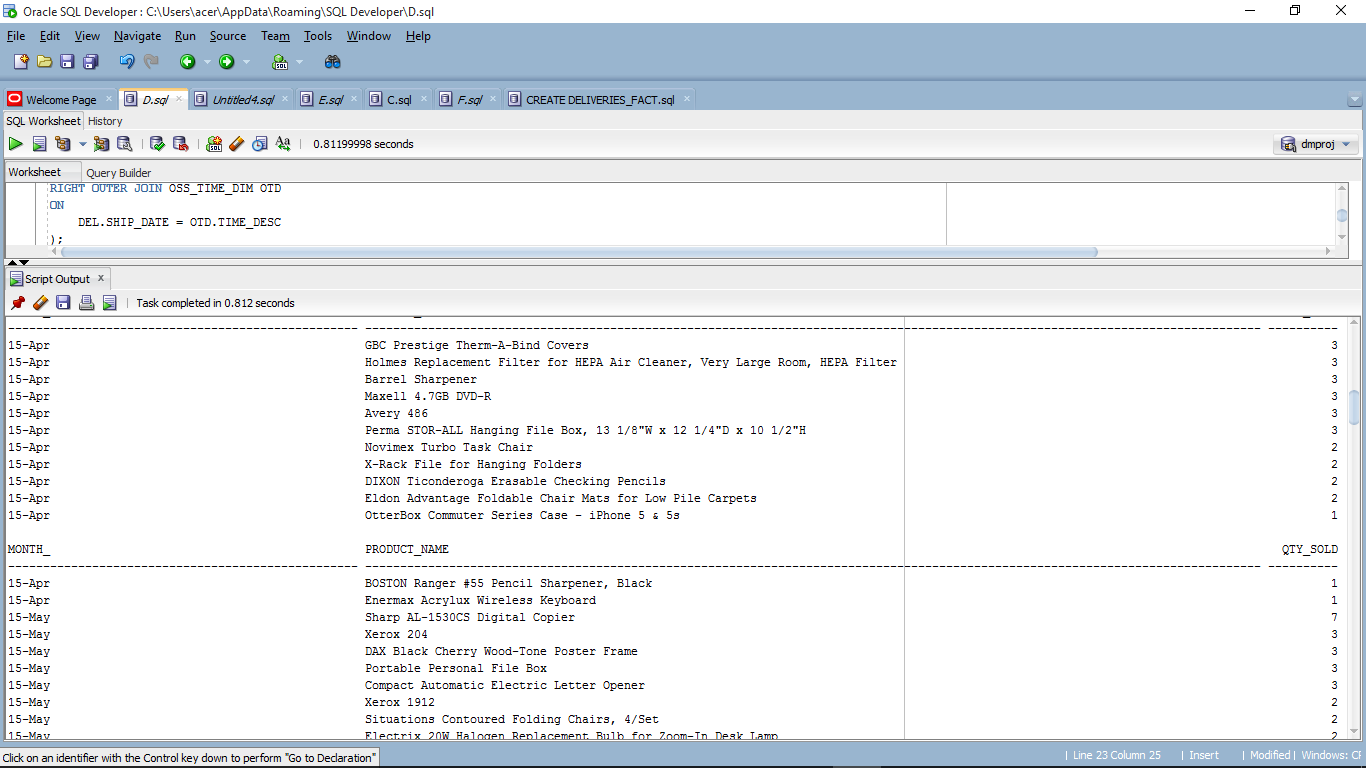
SELECT PARENT\_ID AS MON, PRODUCT\_NAME, SUM(QUANTITY) AS QTY\_SOLD FROM LETTERD WHERE (SHIP\_DATE LIKE '%2015' AND PARENT\_ID LIKE 'M%' AND LOCATION='New York City') GROUP BY PRODUCT\_NAME,PARENT\_ID ORDER BY QTY\_SOLD, MON DESC;

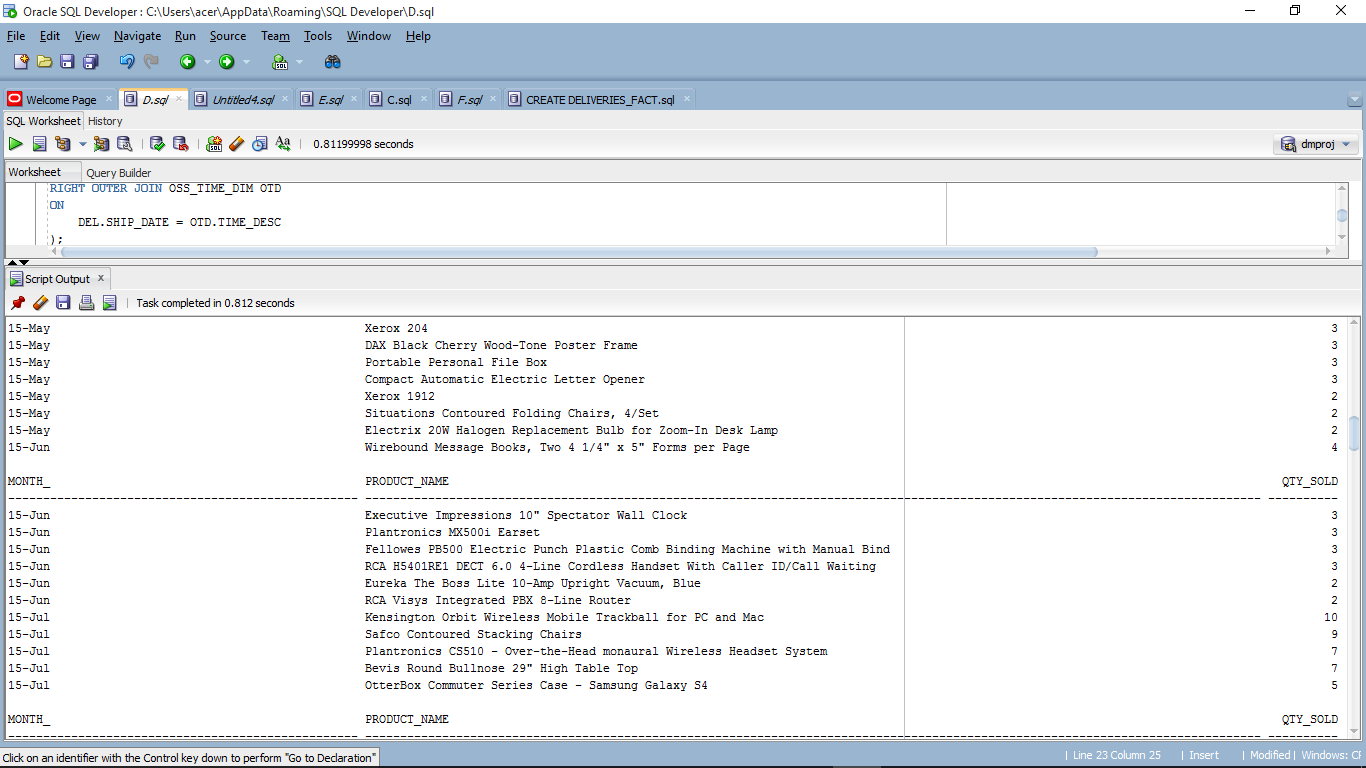
SELECT OTD.TIME\_DESC as MONTH\_,D1.PRODUCT\_NAME, D1.QTY\_SOLD AS QTY\_SOLD FROM

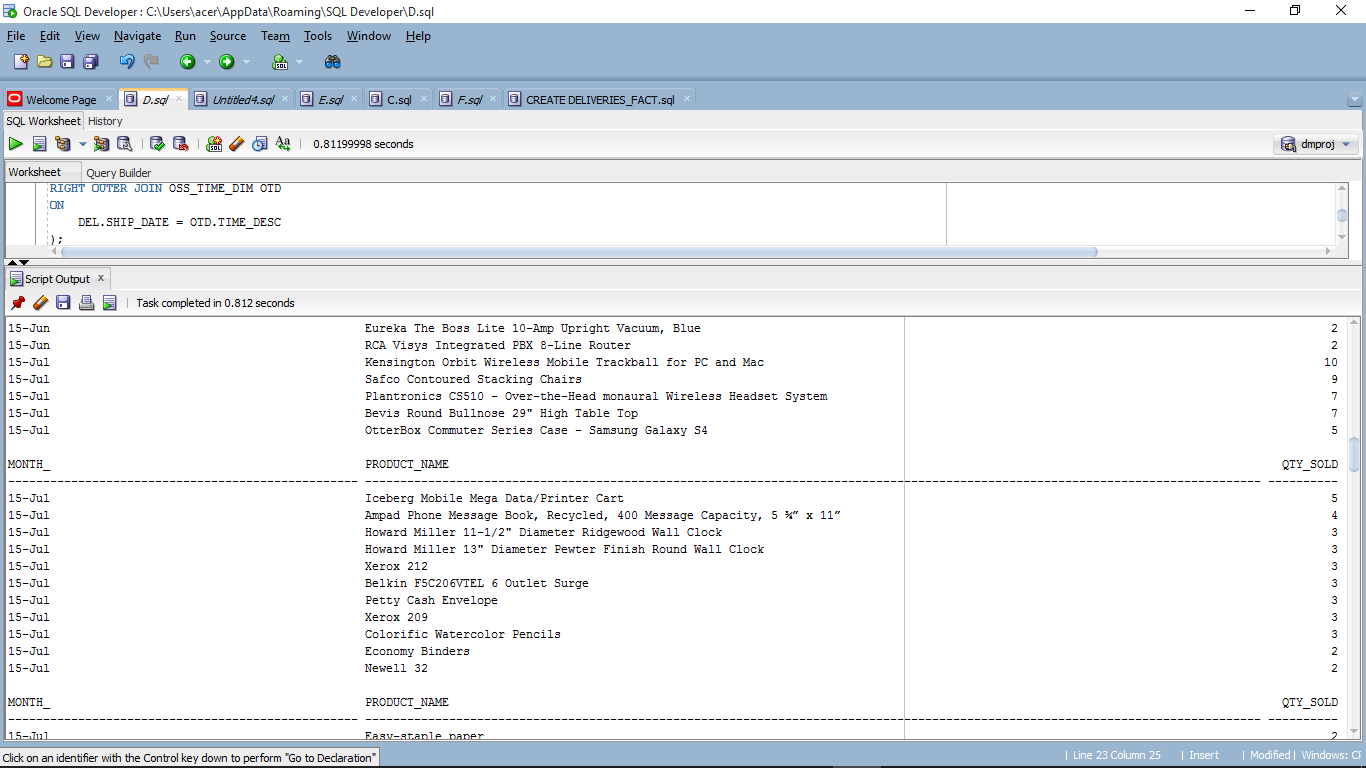
(LET\_D D1 LEFT OUTER JOIN OSS\_TIME\_DIM OTD

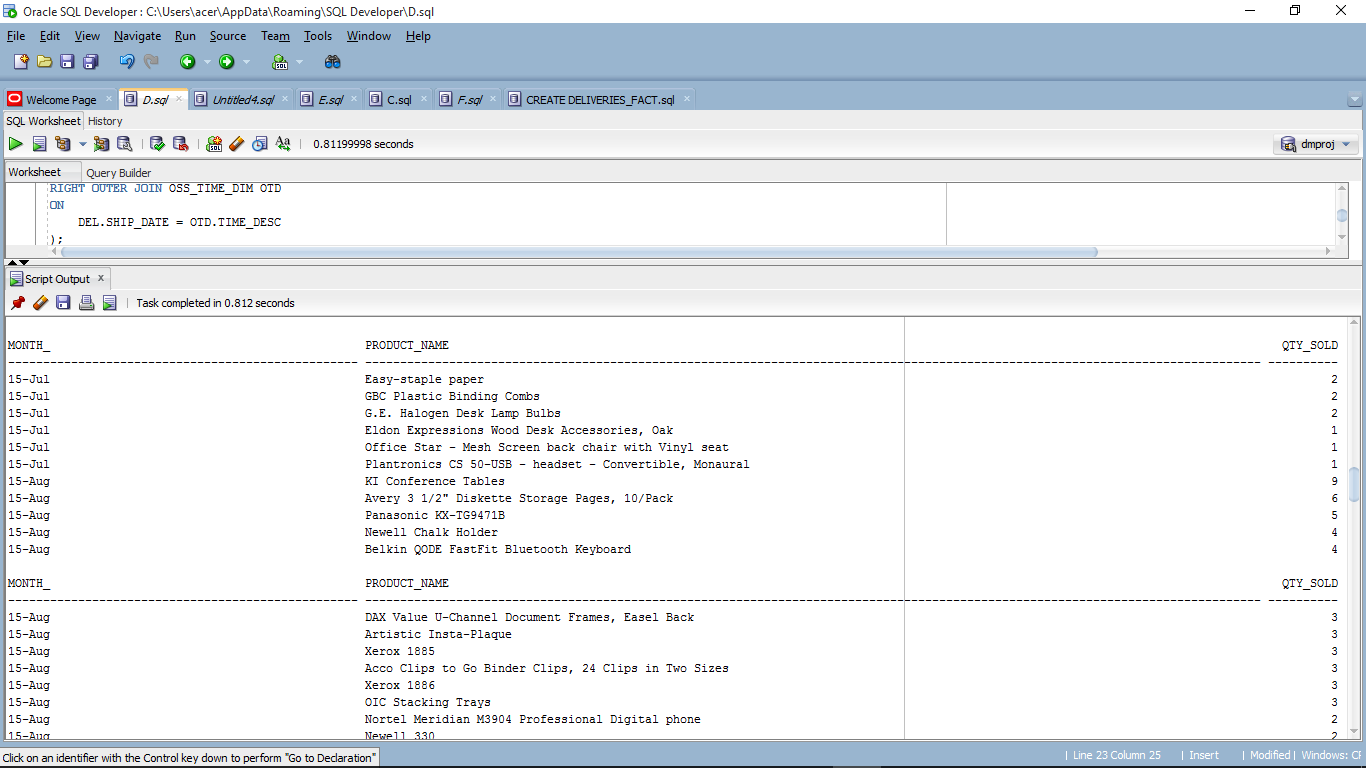
ON D1.MON= OTD.TIME\_KEY);

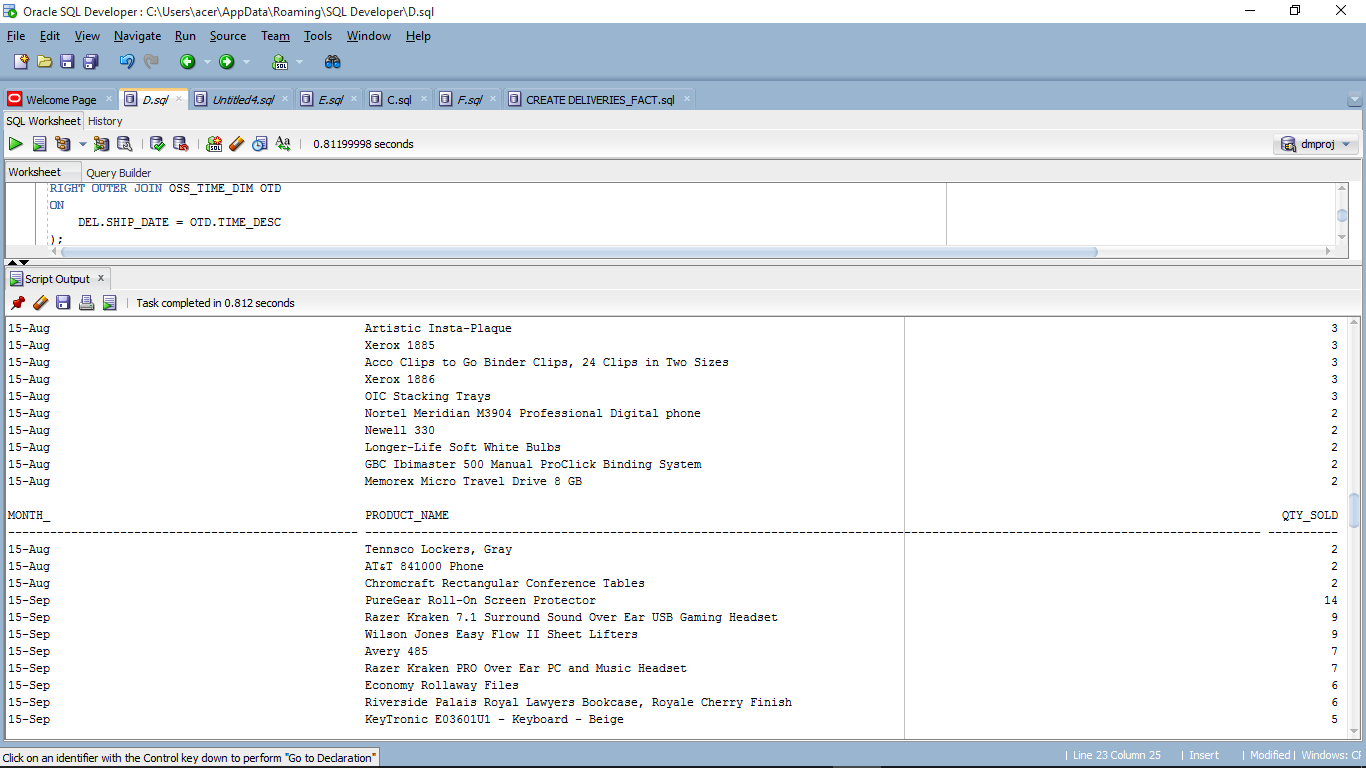


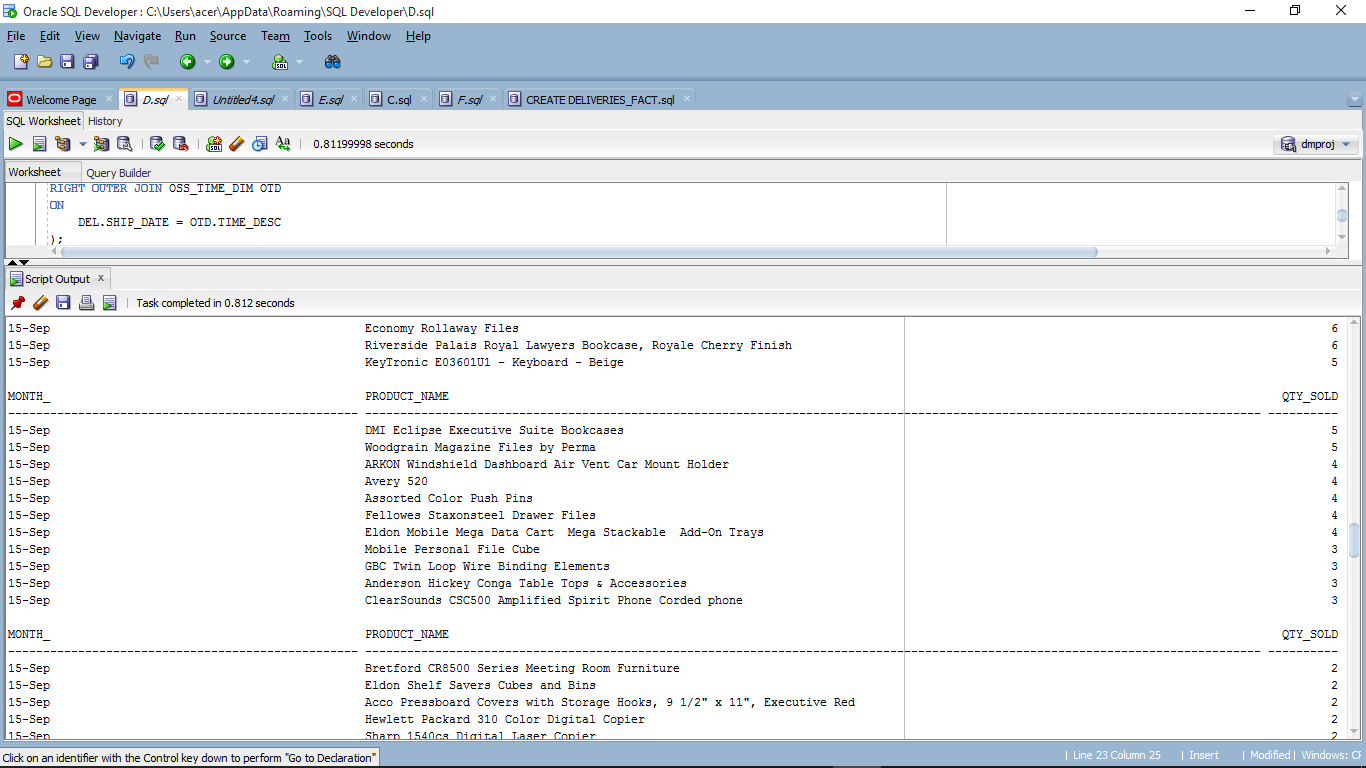


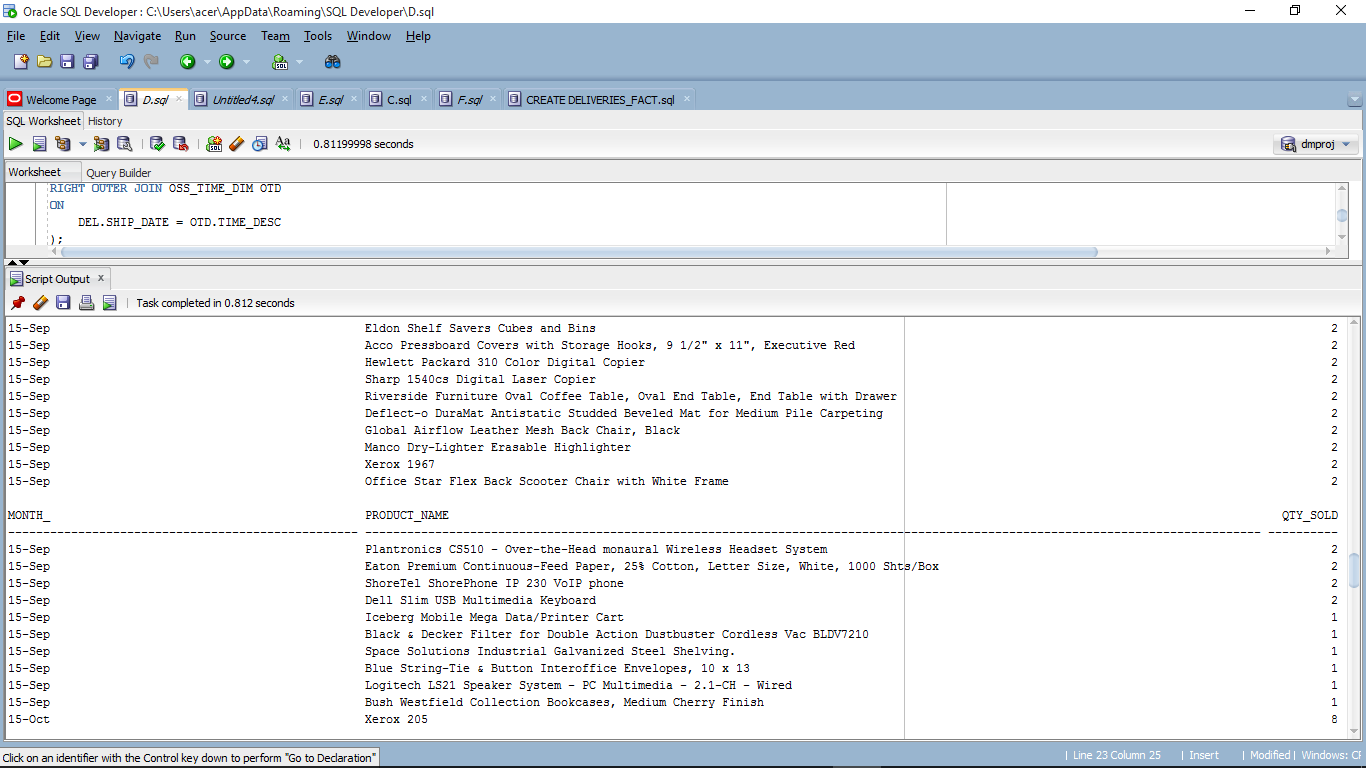


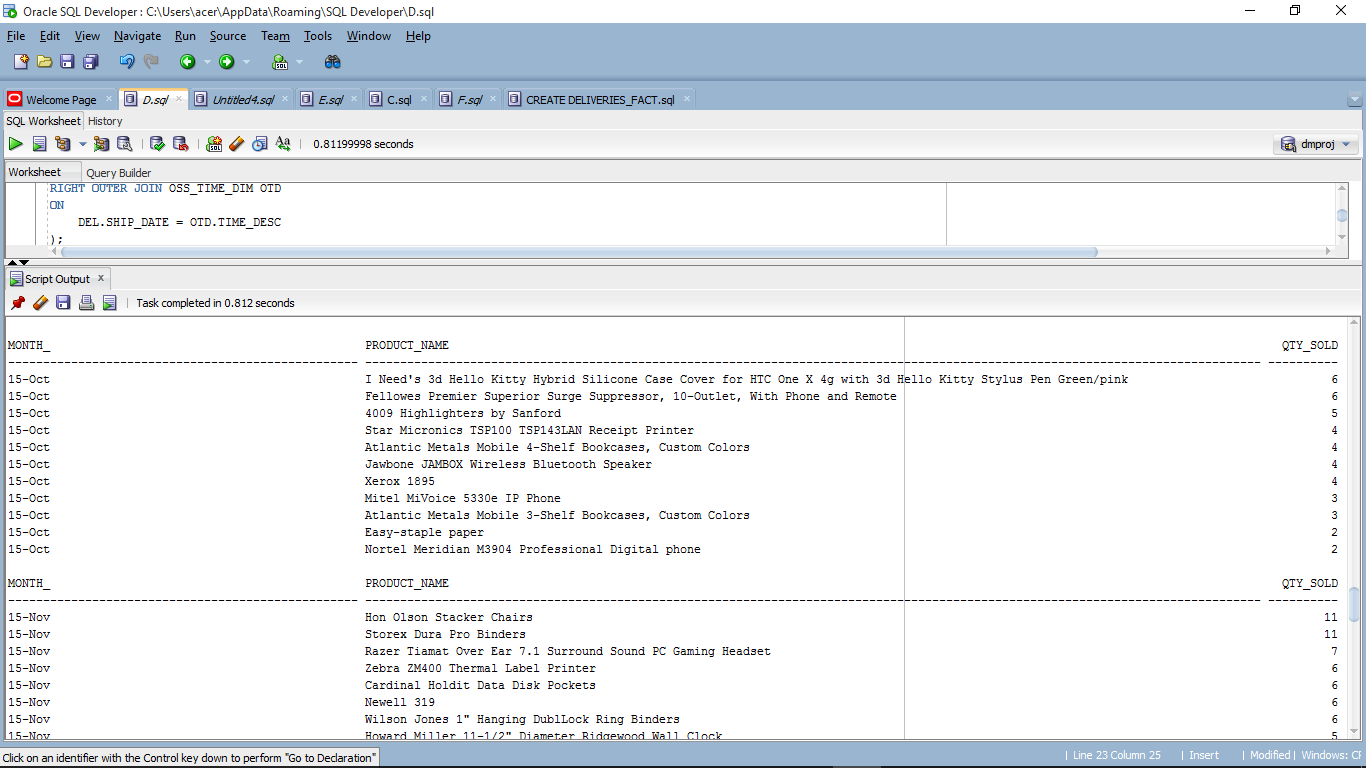


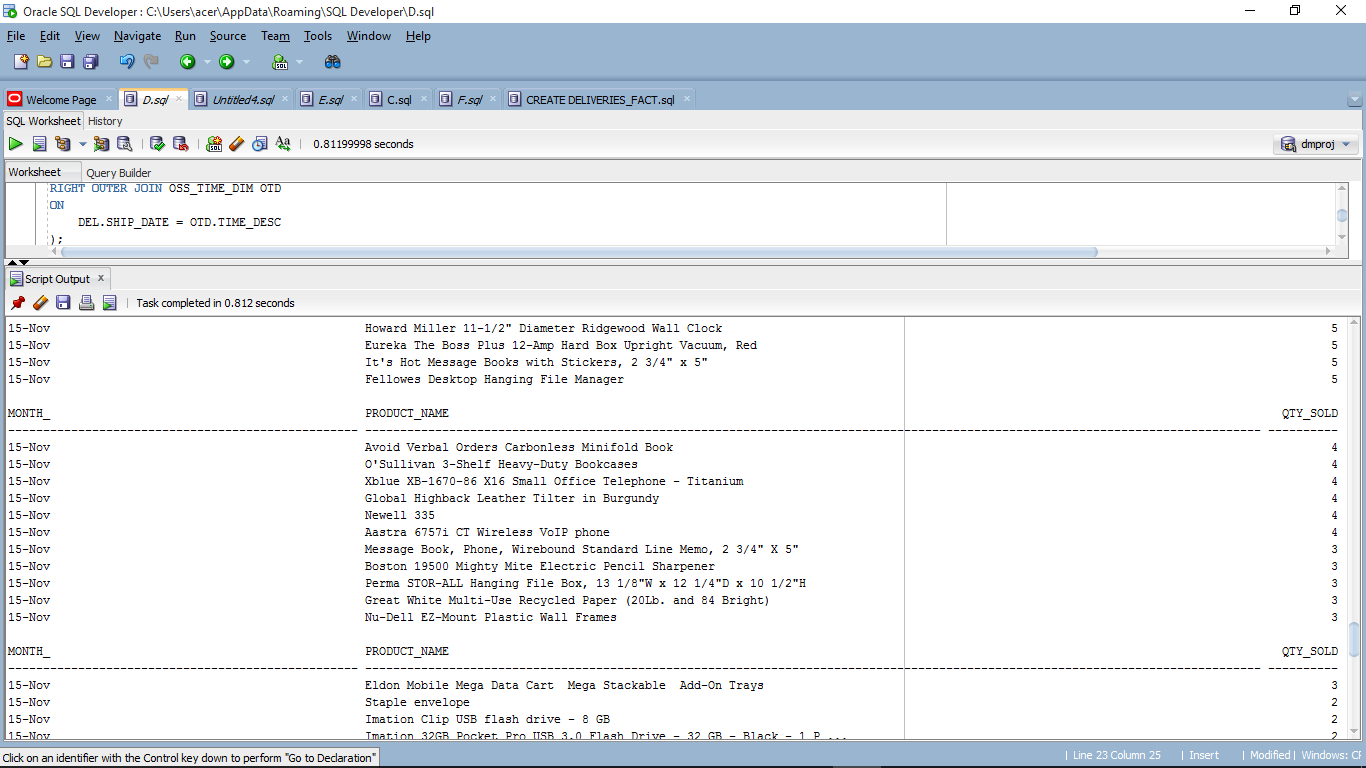


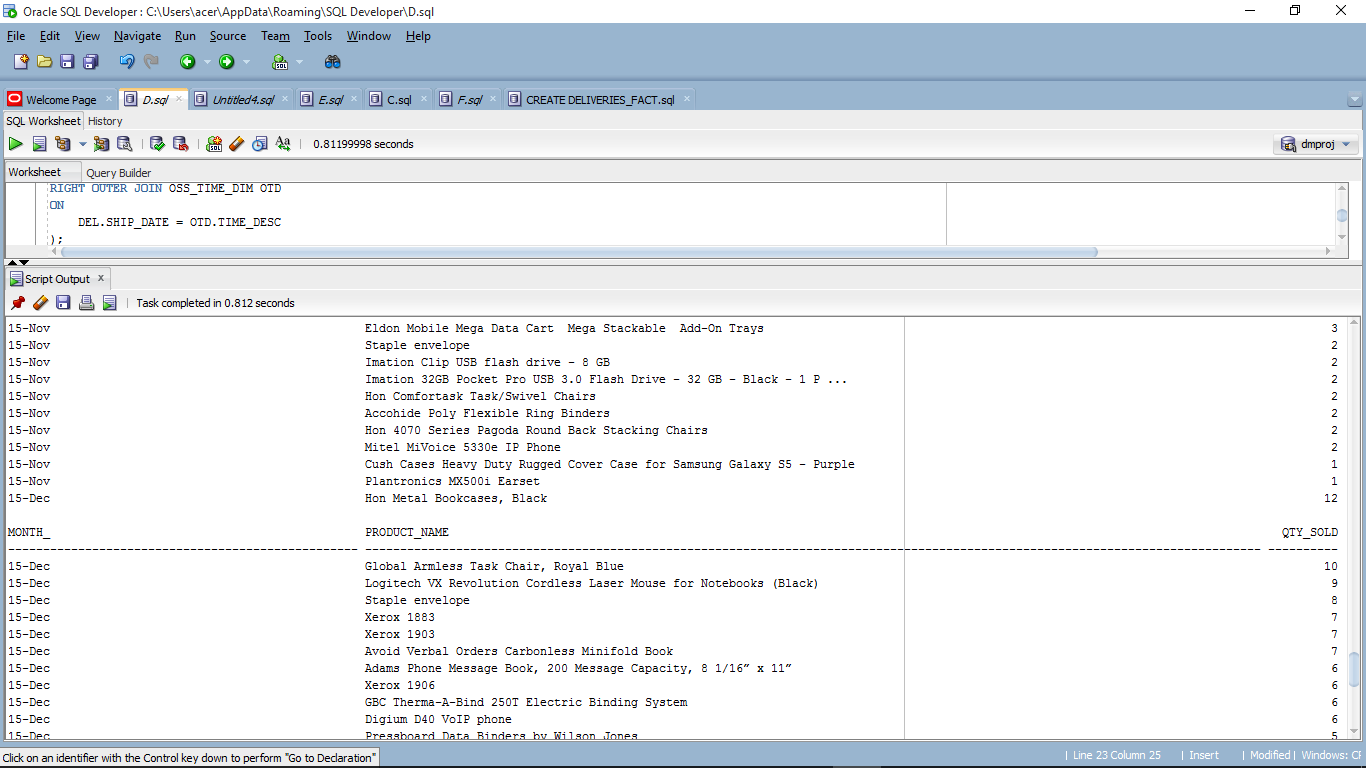


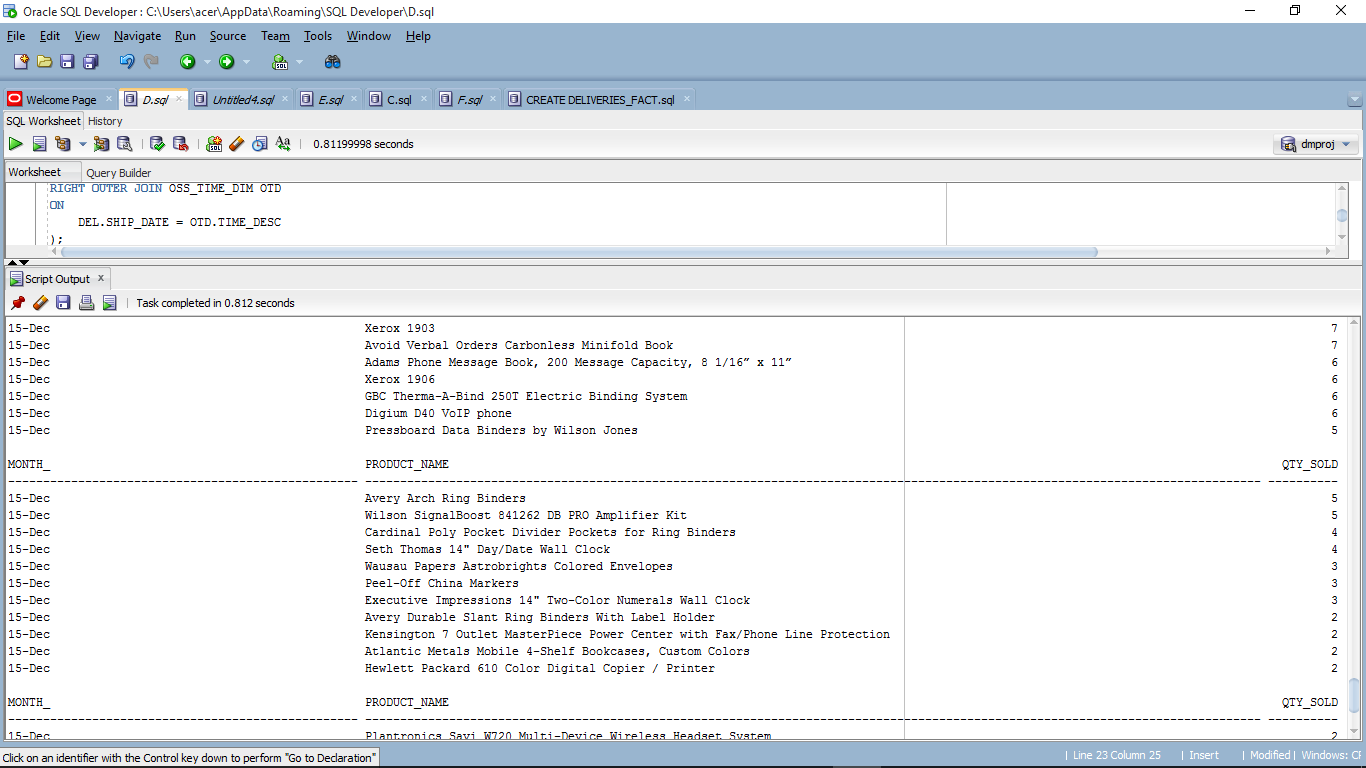


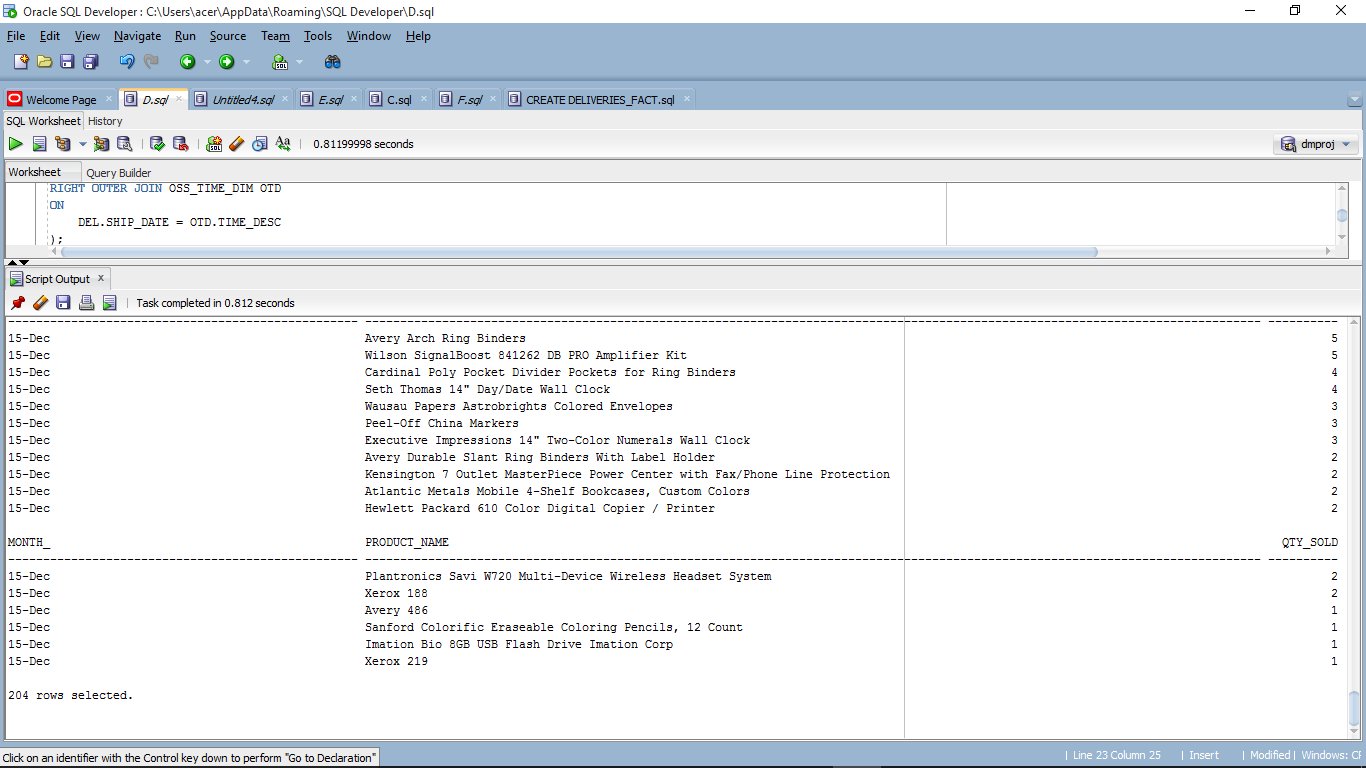












E.

DROP TABLE LETTERE;

create table LETTERE AS

(

SELECT DEL.ROW\_ID, DEL.ORDER\_ID, DEL.ORDER\_DATE, DEL.SHIP\_DATE,

DEL.CITY AS LOCATION,

DEL.PRODUCT\_NAME,

DEL.SALES, DEL.QUANTITY, DEL.DISCOUNT,DEL.PROFIT,

OTD.TIME\_KEY,

OTD.PARENT\_ID,

OTD.TIME\_DESC

FROM DELIVERIES DEL

RIGHT OUTER JOIN OSS\_TIME\_DIM OTD

ON

DEL.SHIP\_DATE = OTD.TIME\_DESC

);

DROP TABLE LET\_E;

CREATE TABLE LET\_E AS

SELECT PARENT\_ID AS MON, PRODUCT\_NAME, SUM(QUANTITY) AS QTY\_SOLD\_SALES,SUM(PROFIT) AS PROFIT\_GENERATED FROM LETTERE WHERE (SHIP\_DATE LIKE '%2015' AND PARENT\_ID LIKE 'M%') GROUP BY PRODUCT\_NAME,PARENT\_ID ORDER BY PROFIT\_GENERATED DESC;

DROP TABLE LET\_E2;

CREATE TABLE LET\_E2 AS(

SELECT OTD.PARENT\_ID AS QUARTER,E1.PRODUCT\_NAME, (E1.QTY\_SOLD\_SALES) AS QTY\_SOLD\_SALES, (E1.PROFIT\_GENERATED) AS PROFIT\_GENERATED FROM

(LET\_E E1 LEFT OUTER JOIN OSS\_TIME\_DIM OTD

ON E1.MON= OTD.TIME\_KEY)

);

SELECT \* FROM(

SELECT QUARTER, PRODUCT\_NAME, SUM(QTY\_SOLD\_SALES) AS QTY\_SOLD\_SALES, SUM(PROFIT\_GENERATED) AS PROFIT\_GENERATED

FROM LET\_E2

WHERE QUARTER='Q01'

GROUP BY PRODUCT\_NAME,QUARTER ORDER BY QUARTER

)WHERE ROWNUM <=3

UNION

SELECT \* FROM(

SELECT QUARTER, PRODUCT\_NAME, SUM(QTY\_SOLD\_SALES) AS QTY\_SOLD\_SALES, SUM(PROFIT\_GENERATED) AS PROFIT\_GENERATED

FROM LET\_E2

WHERE QUARTER='Q02'

GROUP BY PRODUCT\_NAME,QUARTER ORDER BY QUARTER

)WHERE ROWNUM <=3

UNION

SELECT \* FROM(

SELECT QUARTER, PRODUCT\_NAME, SUM(QTY\_SOLD\_SALES) AS QTY\_SOLD\_SALES, SUM(PROFIT\_GENERATED) AS PROFIT\_GENERATED

FROM LET\_E2

WHERE QUARTER='Q03'

GROUP BY PRODUCT\_NAME,QUARTER ORDER BY QUARTER

)WHERE ROWNUM <=3

UNION

SELECT \* FROM(

SELECT QUARTER, PRODUCT\_NAME, SUM(QTY\_SOLD\_SALES) AS QTY\_SOLD\_SALES, SUM(PROFIT\_GENERATED) AS PROFIT\_GENERATED

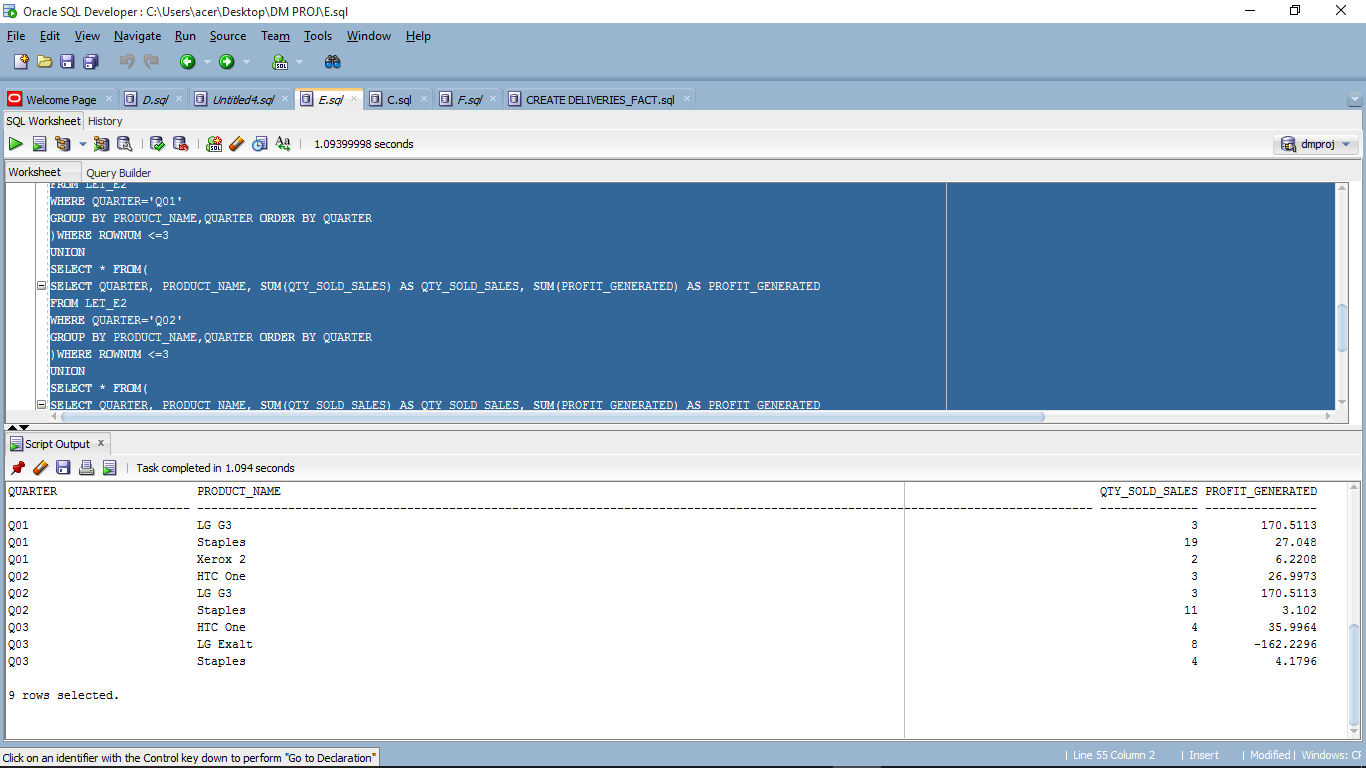
FROM LET\_E2

WHERE QUARTER='Q04'

GROUP BY PRODUCT\_NAME,QUARTER ORDER BY QUARTER

)WHERE ROWNUM <=3

;



F.

DROP TABLE LETTERF;

create table LETTERF AS

(

SELECT DEL.ROW\_ID, DEL.ORDER\_ID, DEL.ORDER\_DATE, DEL.SHIP\_DATE,

DEL.CITY,

DEL.PRODUCT\_NAME,

DEL.SALES, DEL.QUANTITY, DEL.DISCOUNT,DEL.PROFIT,

OTD.TIME\_KEY,

OTD.PARENT\_ID,

OTD.TIME\_DESC

FROM DELIVERIES DEL

RIGHT OUTER JOIN OSS\_TIME\_DIM OTD

ON

DEL.SHIP\_DATE = OTD.TIME\_DESC

);

DROP TABLE LET\_F;

CREATE TABLE LET\_F AS

SELECT PARENT\_ID AS MON, PRODUCT\_NAME,CITY, SUM(QUANTITY) AS QTY\_SOLD\_SALES FROM LETTERF WHERE (SHIP\_DATE LIKE '%2015' AND PARENT\_ID LIKE 'M%') GROUP BY CITY,PRODUCT\_NAME,PARENT\_ID,QUANTITY ORDER BY QTY\_SOLD\_SALES DESC;

DROP TABLE LET\_F2;

CREATE TABLE LET\_F2 AS(

SELECT OTD.PARENT\_ID AS QUARTER,F1.PRODUCT\_NAME, CITY,(F1.QTY\_SOLD\_SALES) AS QTY\_SOLD\_SALES FROM

LET\_F F1 LEFT OUTER JOIN OSS\_TIME\_DIM OTD

ON F1.MON= OTD.TIME\_KEY)

;

SELECT \* FROM(

SELECT QUARTER, CITY AS LOCATION, SUM(QTY\_SOLD\_SALES) AS QTY\_SOLD

FROM LET\_F2

WHERE QUARTER='Q02'

GROUP BY PRODUCT\_NAME,QUARTER,CITY ORDER BY QTY\_SOLD DESC

)WHERE ROWNUM <=1

UNION

SELECT \* FROM(

SELECT QUARTER, CITY AS LOCATION, SUM(QTY\_SOLD\_SALES) AS QTY\_SOLD

FROM LET\_F2

WHERE QUARTER='Q03'

GROUP BY PRODUCT\_NAME,QUARTER,CITY ORDER BY QTY\_SOLD DESC

)WHERE ROWNUM <=1

;

