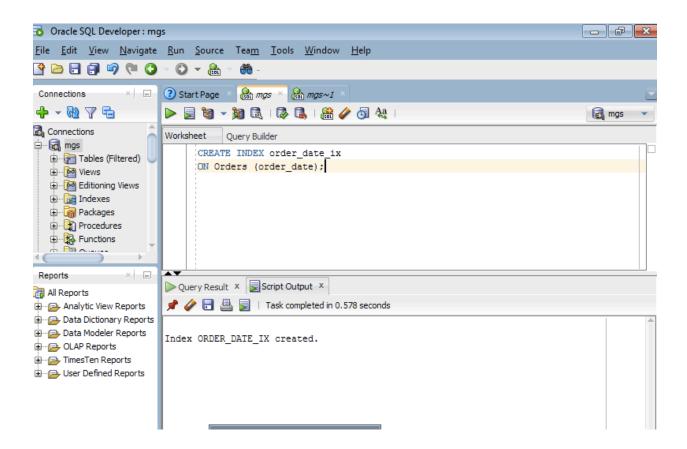
Assignment 5

Chapter 10:

1.

CREATE INDEX order_date_ix ON Orders (order_date);

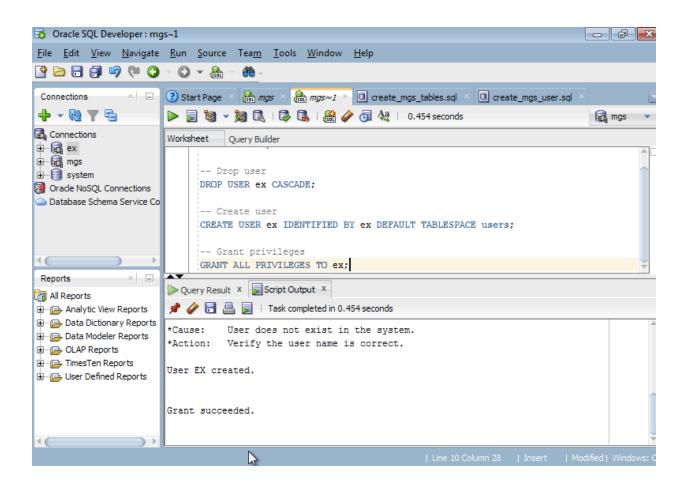


-- This script creates the user named ex

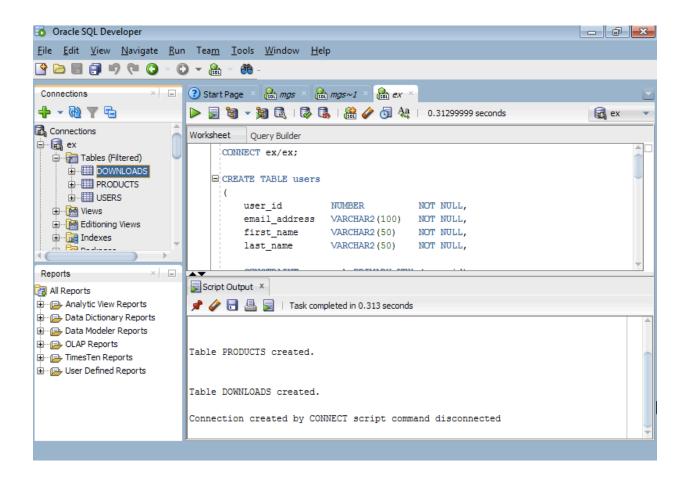
DROP USER ex CASCADE;

CREATE USER ex IDENTIFIED BY ex DEFAULT TABLESPACE users;

GRANT ALL PRIVILEGES TO ex;



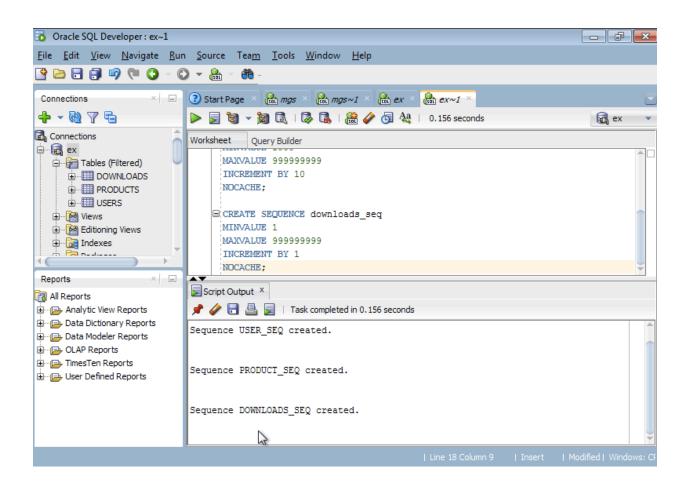
```
CONNECT ex/ex;
CREATE TABLE users
 user id
            NUMBER
                         NOT NULL,
 email address VARCHAR2(100) NOT NULL,
 first name
             VARCHAR2(50) NOT NULL,
 last_name
              VARCHAR2(50) NOT NULL,
 CONSTRAINT users pk PRIMARY KEY (user id)
);
CREATE TABLE products
               NUMBER
 product id
                            NOT NULL,
 product_name
                 VARCHAR2(100) NOT NULL,
 CONSTRAINT product pk PRIMARY KEY (product id)
);
CREATE TABLE downloads
 download_id NUMBER
                           NOT NULL,
 user id
            NUMBER
                         NOT NULL,
 download date DATE
                           NOT NULL,
 file name
             VARCHAR2(100) NOT NULL,
 product id
              NUMBER
                          NOT NULL,
 CONSTRAINT downloads pk PRIMARY KEY (download id),
 CONSTRAINT downloads fk1 FOREIGN KEY (user id)
       REFERENCES users(user id),
 CONSTRAINT downloads_fk2 FOREIGN KEY (product_id)
       REFERENCES products (product id)
);
```



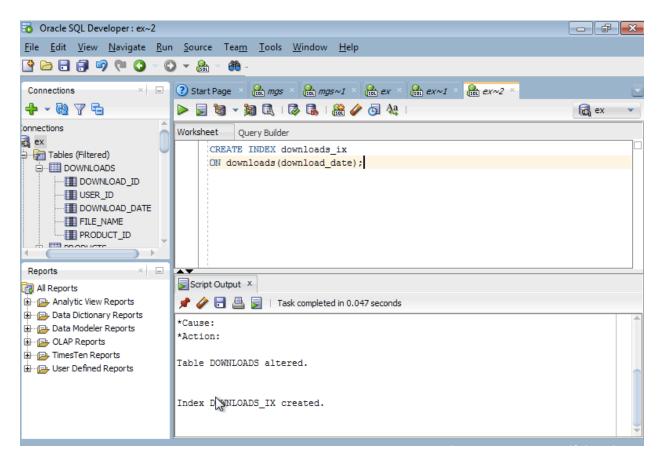
CREATE SEQUENCE user_seq MINVALUE 10000 MAXVALUE 999999999 INCREMENT BY 1 NOCACHE;

CREATE SEQUENCE product_seq MINVALUE 1000 MAXVALUE 99999999 INCREMENT BY 10 NOCACHE;

CREATE SEQUENCE downloads_seq MINVALUE 1 MAXVALUE 999999999 INCREMENT BY 1 NOCACHE;



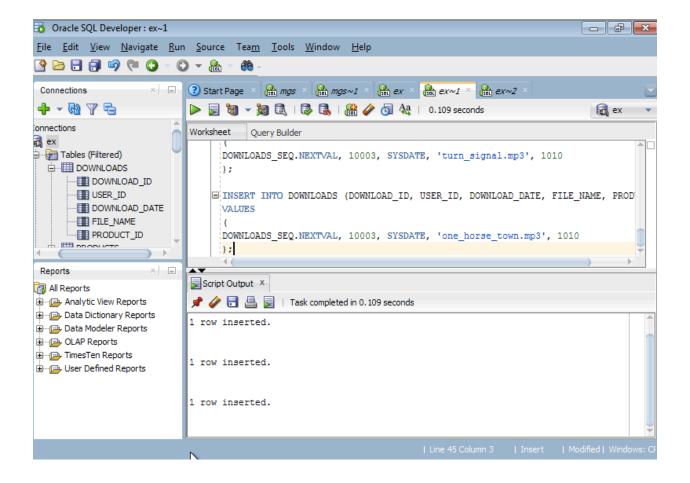
CREATE INDEX downloads_ix ON downloads(download_date);



```
INSERT INTO USERS (USER ID, EMAIL ADDRESS, FIRST NAME, LAST NAME)
VALUES
USER_SEQ.NEXTVAL, 'johnsmith@gmail.com', 'John', 'Smith'
INSERT INTO USERS (USER ID, EMAIL ADDRESS, FIRST NAME, LAST NAME)
VALUES
USER SEQ.NEXTVAL, 'janedoe@gmail.com', 'Jane', 'Doe'
INSERT INTO PRODUCTS (PRODUCT ID, PRODUCT NAME)
VALUES
PRODUCT SEQ.NEXTVAL, 'Local Music Vol 1'
INSERT INTO PRODUCTS (PRODUCT ID, PRODUCT NAME)
VALUES
PRODUCT SEQ.NEXTVAL, 'Local Music Vol 2'
);
INSERT INTO DOWNLOADS (DOWNLOAD ID, USER ID, DOWNLOAD DATE, FILE NAME,
PRODUCT ID)
VALUES
DOWNLOADS SEQ.NEXTVAL, 10002, SYSDATE, 'pedals are falling.mp3', 1000
);
INSERT INTO DOWNLOADS (DOWNLOAD ID, USER ID, DOWNLOAD DATE, FILE NAME,
PRODUCT ID)
VALUES
DOWNLOADS SEQ.NEXTVAL, 10003, SYSDATE, 'turn signal.mp3', 1010
);
```

```
INSERT INTO DOWNLOADS (DOWNLOAD_ID, USER_ID, DOWNLOAD_DATE, FILE_NAME, PRODUCT_ID)

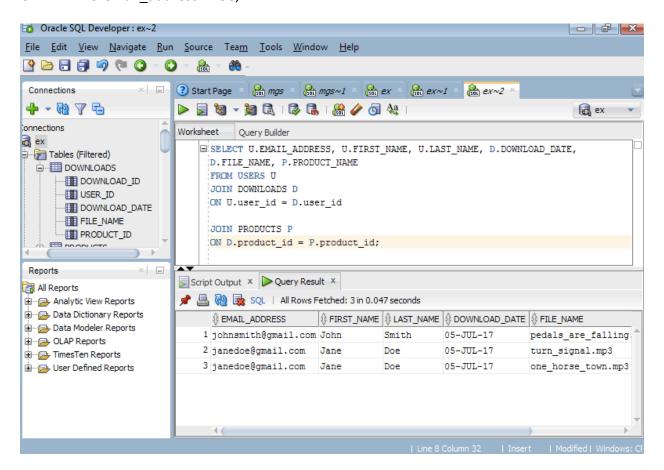
VALUES
(
DOWNLOADS_SEQ.NEXTVAL, 10003, SYSDATE, 'one_horse_town.mp3', 1010
);
```



SELECT U.EMAIL_ADDRESS, U.FIRST_NAME, U.LAST_NAME, D.DOWNLOAD_DATE, D.FILE_NAME, P.PRODUCT_NAME FROM USERS U JOIN DOWNLOADS D ON U.user_id = D.user_id

JOIN PRODUCTS P
ON D.product_id = P.product_id

ORDER BY U.email address DESC;

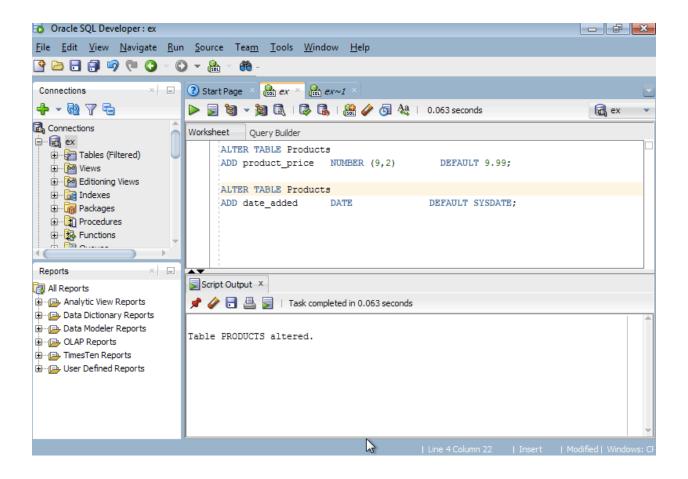


4.

ALTER TABLE Products
ADD product price NUMBER (9,2) DEFAULT 9.99;

ALTER TABLE Products

ADD date_added DATE DEFAULT SYSDATE;



ALTER TABLE Users MODIFY first name VARCHAR(20) NULL;

UPDATE Users

⊕ Data Dictionary Reports

Data Modeler Reports

OLAP Reports

TimesTen Reports

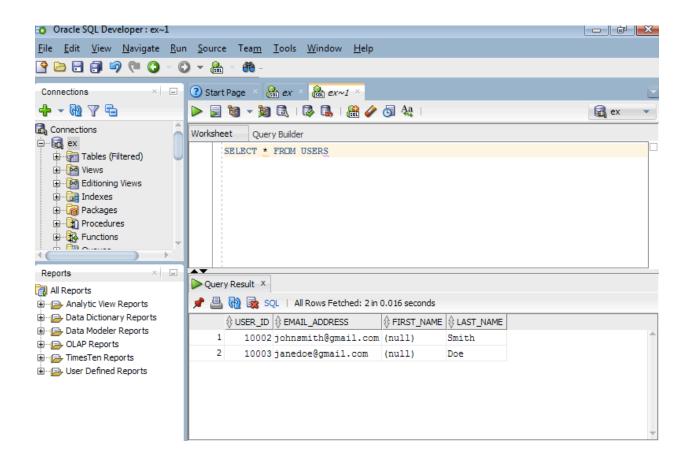
⊕ User Defined Reports

SET FIRST_NAME = null;
Oracle SQL Developer: ex $\underline{\text{File}} \quad \underline{\text{E}}\text{dit} \quad \underline{\text{V}}\text{iew} \quad \underline{\text{N}}\text{avigate} \quad \underline{\text{R}}\text{un} \quad \underline{\text{S}}\text{ource} \quad \text{Tea}\underline{\text{m}} \quad \underline{\text{T}}\text{ools} \quad \underline{\text{W}}\text{indow} \quad \underline{\text{H}}\text{elp}$ × 🖃 💽 Start Page × 🔝 ex × 🔝 ex~1 Connections → ₩ ♥ □ ex ex Connections Worksheet Query Builder ALTER TABLE Users i → Tables (Filtered) MODIFY first name VARCHAR(20) NULL; Editioning Views UPDATE Users ± ⊡i Indexes SET FIRST_NAME = null; 🕁 🦓 Packages ⊕ Procedures ⊕ Bunctions Reports Script Output X All Reports ⊕ Analytic View Reports 📌 🧽 🖥 🚇 📕 | Task completed in 0.516 seconds

Table PRODUCTS altered.

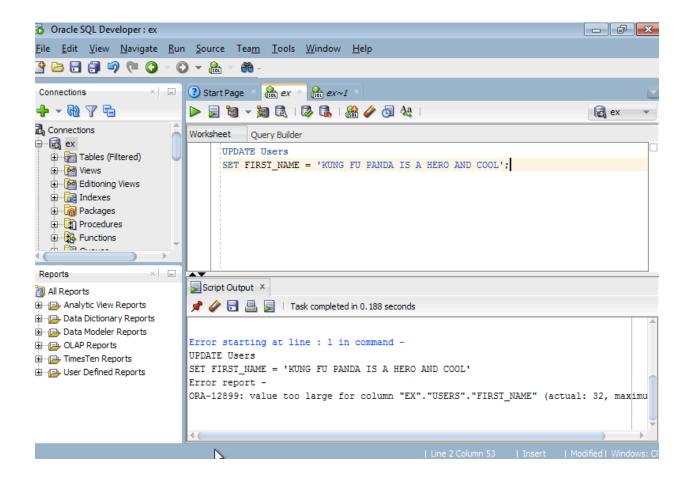
Table USERS altered.

2 rows updated.



Error Statement:

UPDATE Users
SET FIRST_NAME = 'KUNG FU PANDA IS A HERO AND COOL';



CHAPTER 11:

1.

NOTE*** Missing columns in ADDRESSES table

CREATE VIEW customer_addresses

AS

SELECT C.CUSTOMER_ID, C.EMAIL_ADDRESS, C.LAST_NAME, C.FIRST_NAME,

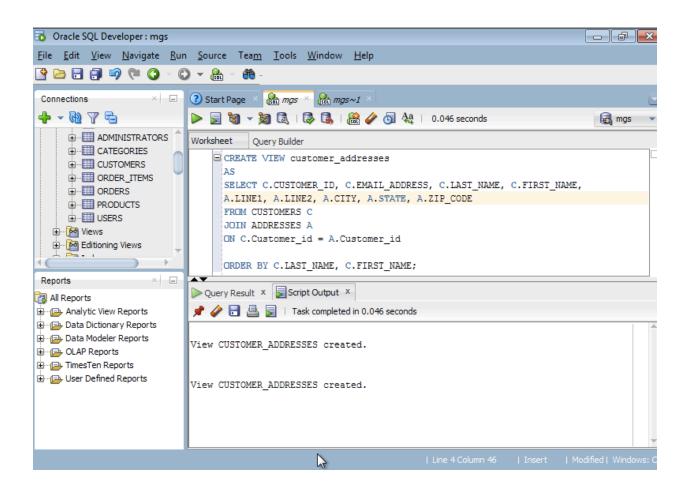
A.LINE1, A.LINE2, A.CITY, A.STATE, A.ZIP_CODE

FROM CUSTOMERS C

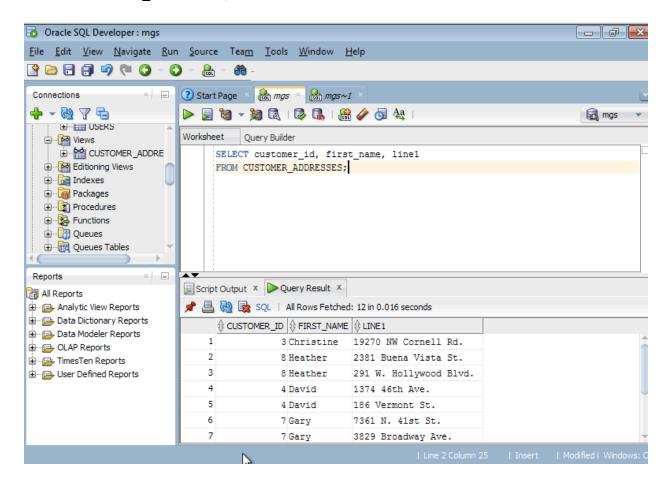
JOIN ADDRESSES A

ON C.Customer id = A.Customer id

ORDER BY C.LAST NAME, C.FIRST NAME;



SELECT customer_id, first_name, line1 FROM CUSTOMER ADDRESSES;

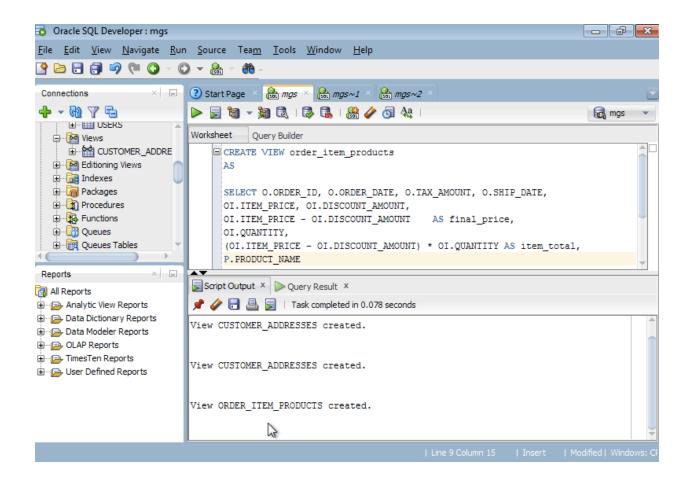


CREATE VIEW order_item_products AS

SELECT O.ORDER_ID, O.ORDER_DATE, O.TAX_AMOUNT, O.SHIP_DATE, OI.ITEM_PRICE, OI.DISCOUNT_AMOUNT, OI.ITEM_PRICE - OI.DISCOUNT_AMOUNT AS final_price, OI.QUANTITY, (OI.ITEM_PRICE - OI.DISCOUNT_AMOUNT) * OI.QUANTITY AS item_total, P.PRODUCT_NAME FROM ORDERS O JOIN ORDER_ITEMS OI ON O.Order_id = OI.Order_id

JOIN PRODUCTS P

ON OI.Product_id = P.Product_id

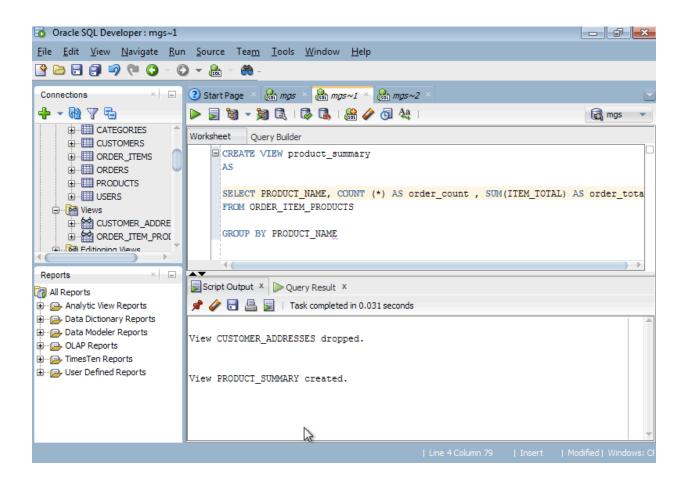


4.

CREATE VIEW product_summary AS

SELECT PRODUCT_NAME, COUNT (*) AS order_count , SUM(ITEM_TOTAL) AS order_total FROM ORDER_ITEM_PRODUCTS

GROUP BY PRODUCT_NAME;



5.

SELECT * FROM PRODUCT_SUMMARY WHERE ROWNUM <=5

ORDER BY ORDER_TOTAL DESC;

