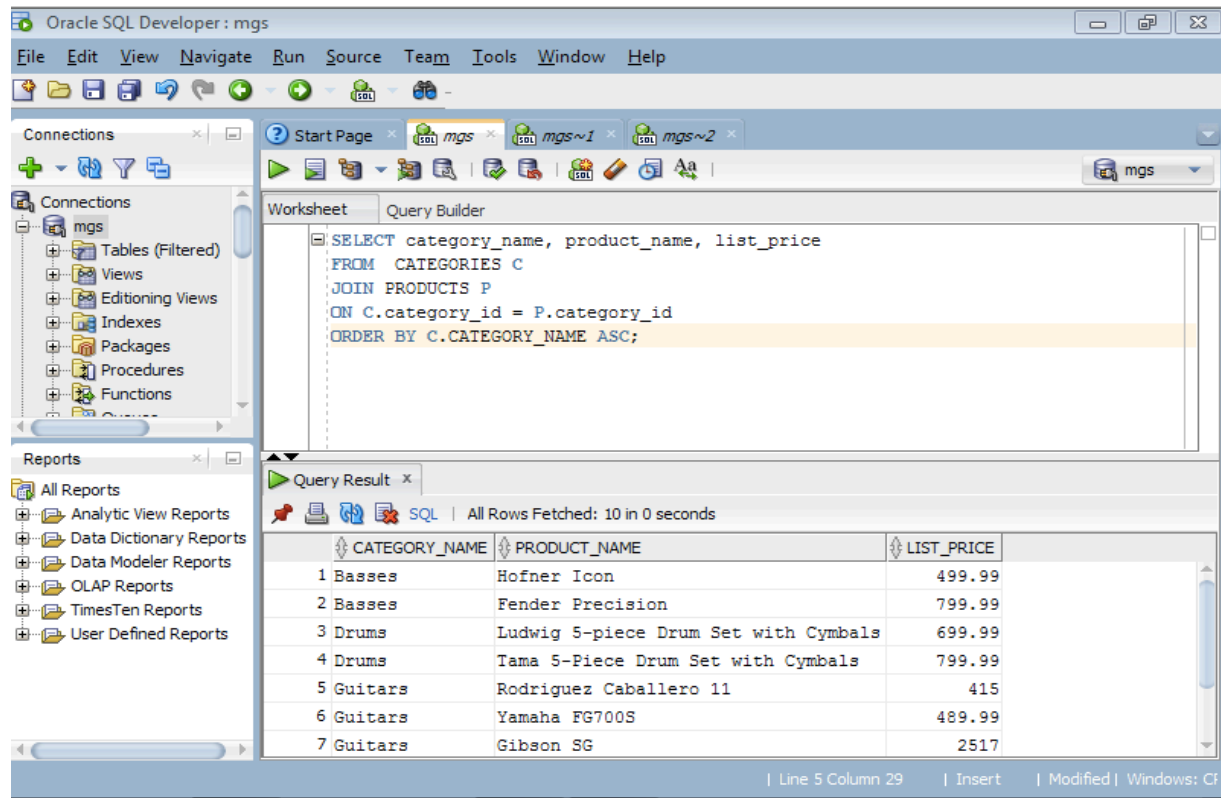


Domas Budrys Assignment 2 – CSCI 4430

1.

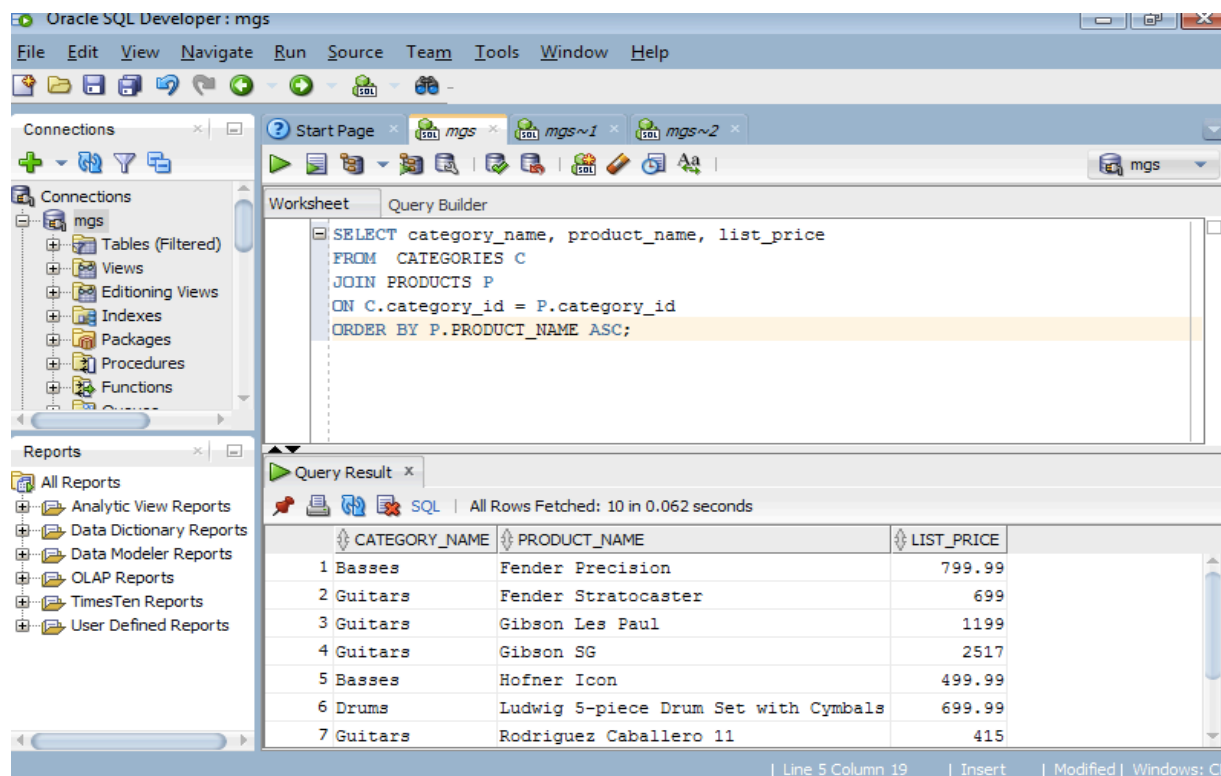


The screenshot shows the Oracle SQL Developer interface. The 'Connections' pane on the left shows a connection to 'mgs'. The 'Query Builder' tab is active, displaying the following SQL query:

```
SELECT category_name, product_name, list_price
FROM CATEGORIES C
JOIN PRODUCTS P
ON C.category_id = P.category_id
ORDER BY C.CATEGORY_NAME ASC;
```

The 'Query Result' pane shows the results of the query, sorted by category name. The results are as follows:

| | CATEGORY_NAME | PRODUCT_NAME | LIST_PRICE |
|---|---------------|--------------------------------------|------------|
| 1 | Basses | Hofner Icon | 499.99 |
| 2 | Basses | Fender Precision | 799.99 |
| 3 | Drums | Ludwig 5-piece Drum Set with Cymbals | 699.99 |
| 4 | Drums | Tama 5-Piece Drum Set with Cymbals | 799.99 |
| 5 | Guitars | Rodriguez Caballero 11 | 415 |
| 6 | Guitars | Yamaha FG700S | 489.99 |
| 7 | Guitars | Gibson SG | 2517 |



The screenshot shows the Oracle SQL Developer interface. The 'Connections' pane on the left shows a connection to 'mgs'. The 'Query Builder' tab is active, displaying the following SQL query:

```
SELECT category_name, product_name, list_price
FROM CATEGORIES C
JOIN PRODUCTS P
ON C.category_id = P.category_id
ORDER BY P.PRODUCT_NAME ASC;
```

The 'Query Result' pane shows the results of the query, sorted by product name. The results are as follows:

| | CATEGORY_NAME | PRODUCT_NAME | LIST_PRICE |
|---|---------------|--------------------------------------|------------|
| 1 | Basses | Fender Precision | 799.99 |
| 2 | Guitars | Fender Stratocaster | 699 |
| 3 | Guitars | Gibson Les Paul | 1199 |
| 4 | Guitars | Gibson SG | 2517 |
| 5 | Basses | Hofner Icon | 499.99 |
| 6 | Drums | Ludwig 5-piece Drum Set with Cymbals | 699.99 |
| 7 | Guitars | Rodriguez Caballero 11 | 415 |

```
SELECT category_name, product_name, list_price
FROM CATEGORIES C
JOIN PRODUCTS P
ON C.category_id = P.category_id
ORDER BY C.CATEGORY_NAME ASC;
```

```
SELECT category_name, product_name, list_price
FROM CATEGORIES C
JOIN PRODUCTS P
ON C.category_id = P.category_id
ORDER BY P.PRODUCT_NAME ASC;
```

2.

The screenshot shows the Oracle SQL Developer interface. The main window displays a SQL query in the Query Builder:

```
SELECT first_name, last_name, line1, city, state, zip_code
FROM CUSTOMERS C
INNER JOIN ADDRESSES A
ON C.customer_id = A.customer_id
WHERE C.EMAIL_ADDRESS = 'allan.sherwood@yahoo.com';
```

The Results pane shows the output of the query, which is a table with 6 columns: FIRST_NAME, LAST_NAME, LINE1, CITY, STATE, and ZIP_CODE. The table contains 2 rows of data.

| | FIRST_NAME | LAST_NAME | LINE1 | CITY | STATE | ZIP_CODE |
|---|------------|-----------|-------------------------|----------------|-------|----------|
| 1 | Allan | Sherwood | 100 East Ridgewood Ave. | Paramus | NJ | 07652 |
| 2 | Allan | Sherwood | 21 Rosewood Rd. | Woodcliff Lake | NJ | 07677 |

The status bar at the bottom indicates "Line 5 Column 53 | Insert | Modified | Windows: C".

```
SELECT first_name, last_name, line1, city, state, zip_code
FROM CUSTOMERS C
INNER JOIN ADDRESSES A
ON C.customer_id = A.customer_id
WHERE C.EMAIL_ADDRESS = 'allan.sherwood@yahoo.com';
```

3.

The screenshot shows the Oracle SQL Developer interface. The main window displays a SQL query in the Worksheet tab:

```
SELECT first_name, last_name, line1, city, state, zip_code
FROM CUSTOMERS C
INNER JOIN ADDRESSES A
ON C.customer_id = A.customer_id
WHERE C.SHIPPING_ADDRESS_ID = A.ADDRESS_ID;
```

The Query Result tab shows the results of the query, with 8 rows fetched in 0.016 seconds. The results are displayed in a table with the following columns: FIRST_NAME, LAST_NAME, LINE1, CITY, STATE, and ZIP_CODE.

| | FIRST_NAME | LAST_NAME | LINE1 | CITY | STATE | ZIP_CODE |
|---|------------|-----------|-------------------------|---------------|-------|----------|
| 1 | Allan | Sherwood | 100 East Ridgewood Ave. | Paramus | NJ | 07652 |
| 2 | Barry | Zimmer | 16285 Wendell St. | Omaha | NE | 68135 |
| 3 | Christine | Brown | 19270 NW Cornell Rd. | Beaverton | OR | 97006 |
| 4 | David | Goldstein | 186 Vermont St. | San Francisco | CA | 94110 |
| 5 | Erin | Valentino | 6982 Palm Ave. | Fresno | CA | 93711 |
| 6 | Frank Lee | Wilson | 23 Mountain View St. | Denver | CO | 80208 |
| 7 | Gary | Hernandez | 7361 N. 41st St. | New York | NY | 10012 |

```
SELECT first_name, last_name, line1, city, state, zip_code
FROM CUSTOMERS C
INNER JOIN ADDRESSES A
ON C.customer_id = A.customer_id
WHERE C.SHIPPING_ADDRESS_ID = A.ADDRESS_ID;
```

4.

The screenshot shows the Oracle SQL Developer interface. The 'Connections' pane on the left lists various database objects. The 'Query Builder' pane in the center contains the following SQL query:

```
SELECT C.last_name, C.first_name, O.order_date, P.product_name, OI.item_price,
OI.discount_amount, OI.quantity
FROM CUSTOMERS C
JOIN ADDRESSES A
ON C.customer_id = A.customer_id

JOIN ORDERS O
ON C.CUSTOMER_ID = O.CUSTOMER_ID

JOIN ORDER_ITEMS OI
ON O.ORDER_ID = OI.ORDER_ID

JOIN PRODUCTS P
ON OI.PRODUCT_ID = P.PRODUCT_ID

ORDER BY C.LAST_NAME, O.ORDER_DATE, P.PRODUCT_NAME;
```

The 'Query Result' pane at the bottom displays the results of the query. It shows 18 rows fetched in 0.032 seconds. The columns are LAST_NAME, FIRST_NAME, ORDER_DATE, PRODUCT_NAME, and ITEM_PRICE. The data is as follows:

| | LAST_NAME | FIRST_NAME | ORDER_DATE | PRODUCT_NAME | ITEM_PRICE |
|---|-----------|------------|------------|------------------------------------|------------|
| 1 | Brown | Christine | 30-MAR-12 | Gibson Les Paul | 11 |
| 2 | Goldstein | David | 31-MAR-12 | Washburn D10S | 2 |
| 3 | Goldstein | David | 31-MAR-12 | Washburn D10S | 2 |
| 4 | Goldstein | David | 03-APR-12 | Fender Stratocaster | 6 |
| 5 | Goldstein | David | 03-APR-12 | Fender Stratocaster | 6 |
| 6 | Hernandez | Gary | 02-APR-12 | Tama 5-Piece Drum Set with Cymbals | 799. |

```
SELECT C.last_name, C.first_name, O.order_date, P.product_name, OI.item_price,
OI.discount_amount, OI.quantity
FROM CUSTOMERS C
JOIN ADDRESSES A
ON C.customer_id = A.customer_id
```

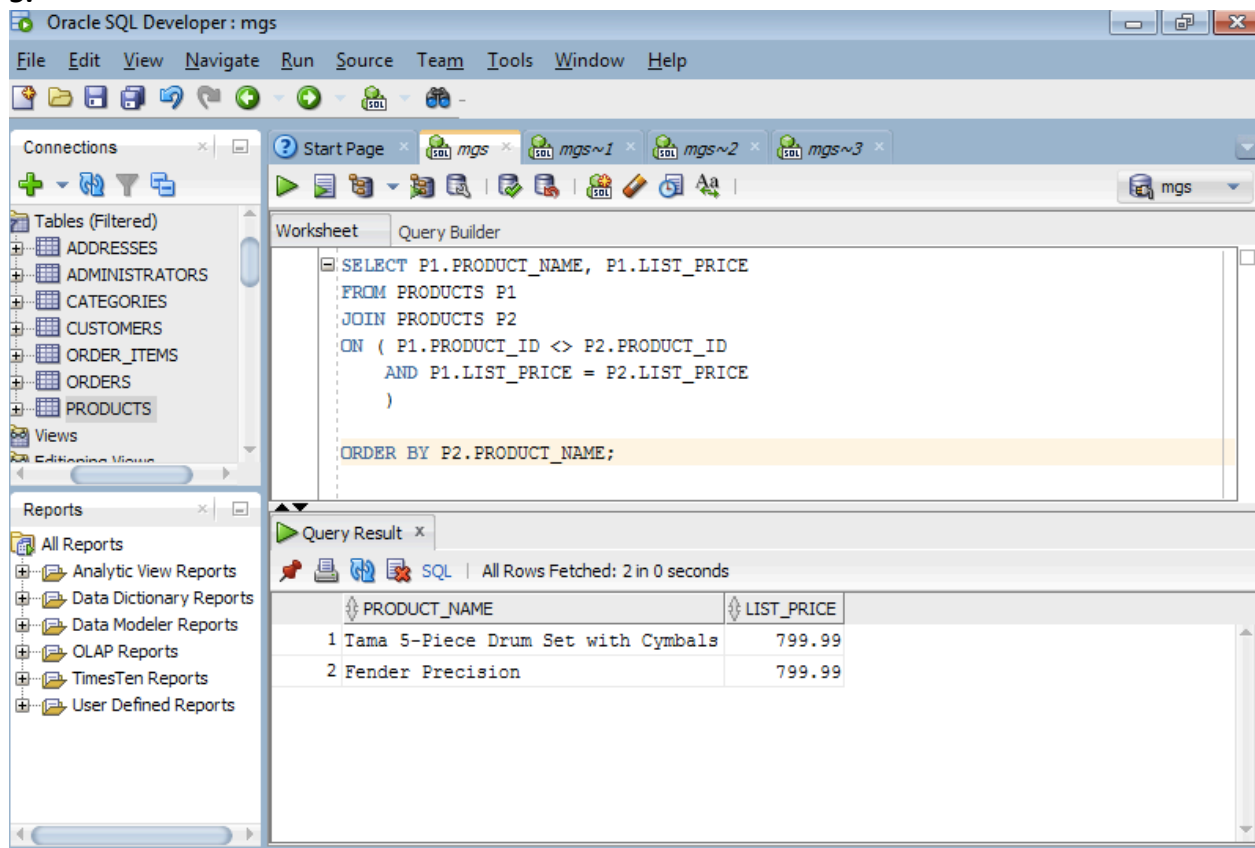
```
JOIN ORDERS O
ON C.CUSTOMER_ID = O.CUSTOMER_ID
```

```
JOIN ORDER_ITEMS OI
ON O.ORDER_ID = OI.ORDER_ID
```

```
JOIN PRODUCTS P
ON OI.PRODUCT_ID = P.PRODUCT_ID
```

```
ORDER BY C.LAST_NAME, O.ORDER_DATE, P.PRODUCT_NAME;
```

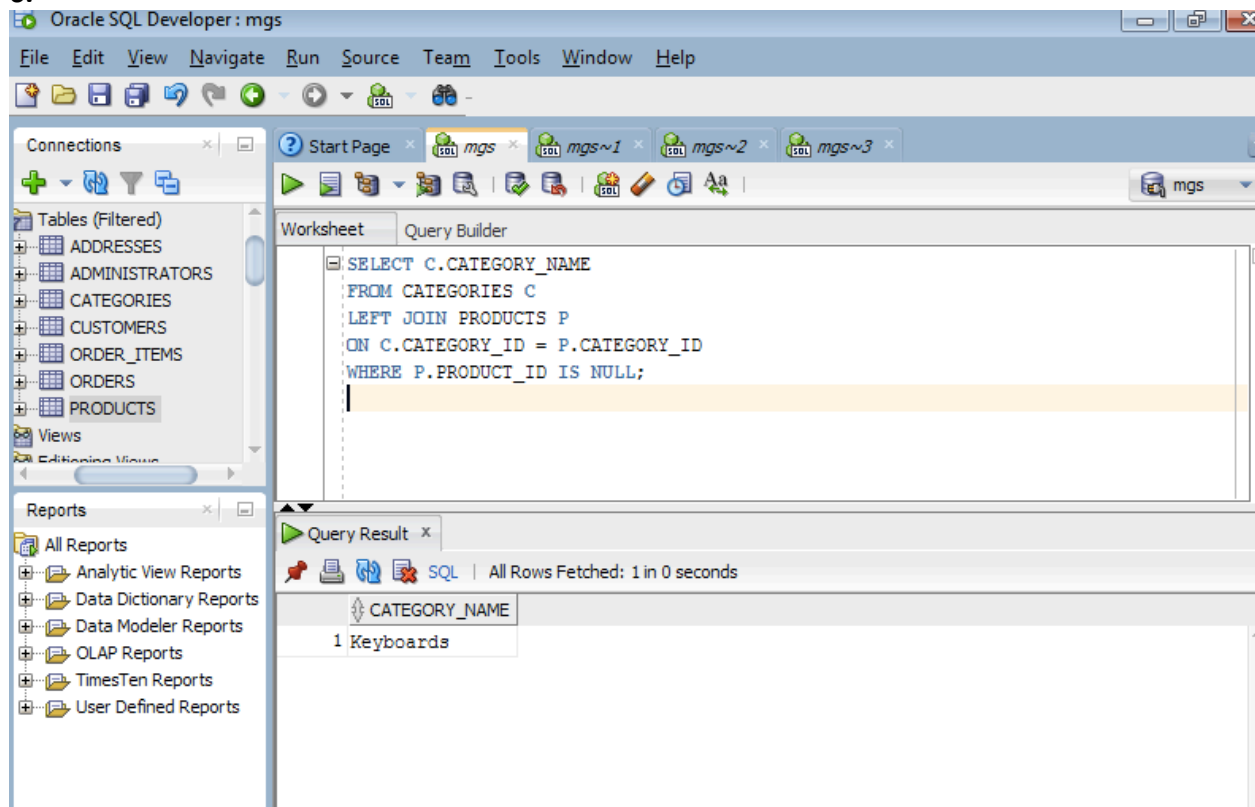
5.



```
SELECT P1.PRODUCT_NAME, P1.LIST_PRICE
FROM PRODUCTS P1
JOIN PRODUCTS P2
ON ( P1.PRODUCT_ID <> P2.PRODUCT_ID
    AND P1.LIST_PRICE = P2.LIST_PRICE
)
```

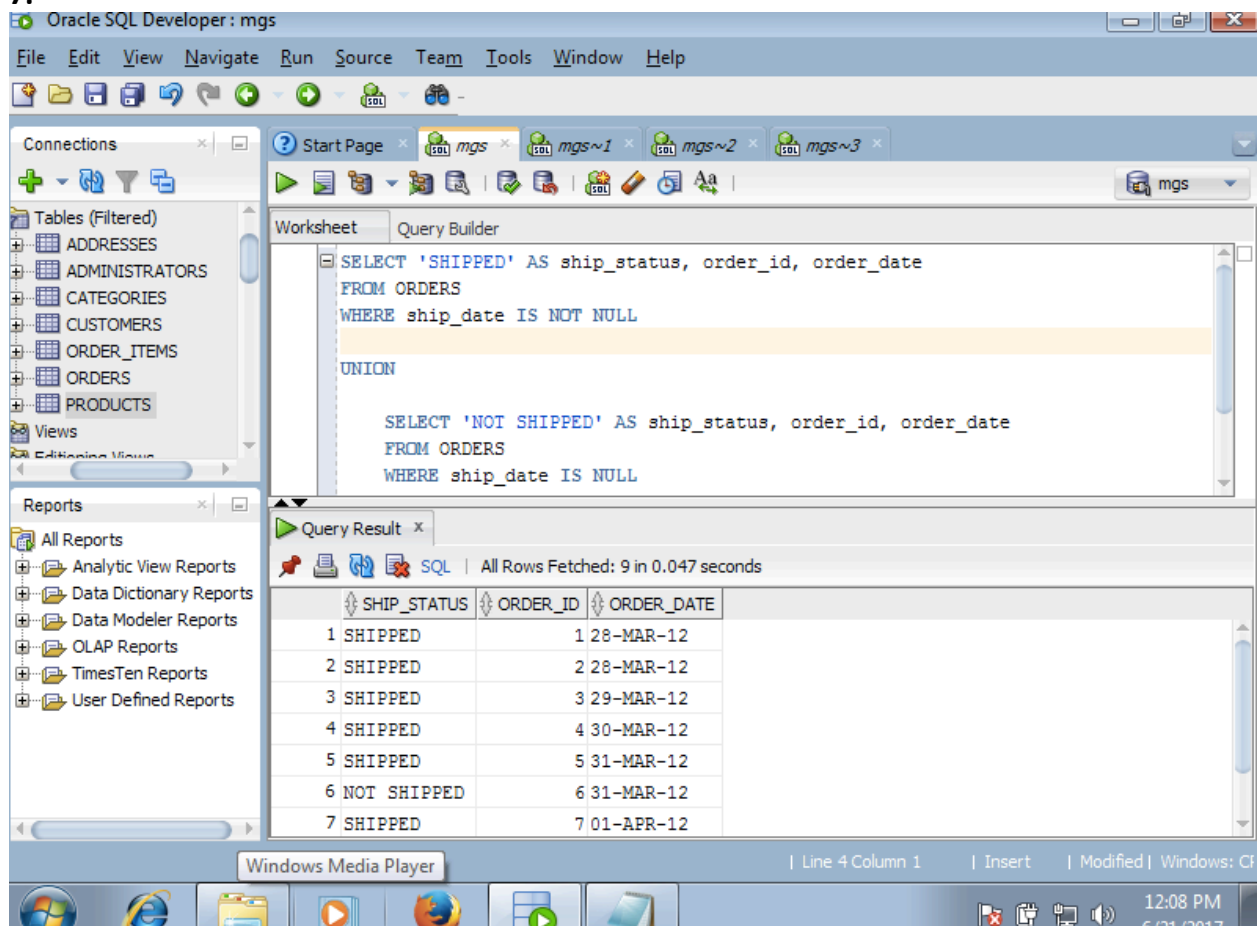
```
ORDER BY P2.PRODUCT_NAME;
```

6.



```
SELECT C.CATEGORY_NAME  
FROM CATEGORIES C  
LEFT JOIN PRODUCTS P  
ON C.CATEGORY_ID = P.CATEGORY_ID  
WHERE P.PRODUCT_ID IS NULL;
```

7.



```
SELECT 'SHIPPED' AS ship_status, order_id, order_date
FROM ORDERS
WHERE ship_date IS NOT NULL
```

```
UNION
```

```
SELECT 'NOT SHIPPED' AS ship_status, order_id, order_date
FROM ORDERS
WHERE ship_date IS NULL
```

```
ORDER BY order_date;
```