Consider the following schema based on the VRG database given in class. Note: the tables shown here have fewer columns than the actual tables in the database to keep the problem simple.

ARTIST (ARTISTID : integer [PK], FIRSTNAME : string, LASTNAME : string, NATIONALITY: string, DATEOFBIRTH: integer)

WORK (WORKID : integer [PK], TITLE : string, ARTISTID : string)

CUSTOMER (CUSTOMERID : integer [PK], FIRSTNAME : string, LASTNAME : string, COUNTRY: string)

TRANS (TRANSACTIONID: integer [PK], CUSTOMERID : integer, WORKID : integer, SALESPRICE: float)

The key fields are underlined, and the domain of each field is listed after the field name. WORK.ARTISTID is a foreign key referring to ARTIST.ARTISTID, TRANS.CUSTOMERID is a foreign key referencing CUSTOMER.CUSTOMERID, and TRANS.WORKID is a foreign key referring to WORK.WORKID.

Write the following queries in SQL in the space given:

a) Display the titles and sales prices of all works sold for more than $10,000

```
SELECT WORK.TITLE
FROM WORK
JOIN TRANS ON WORK.WORKID = TRANS.WORKID
WHERE TRANS.SALESPRICE > 10000;
```

b) Display the first and last names of all artists whose at least one work sold for more than $10,000.
Each name must appear only once.

```
SELECT DISTINCT ARTIST.FIRSTNAME, ARTIST.LASTNAME
FROM ARTIST
JOIN WORK ON ARTIST.ARTISTID = WORK.ARTISTID
JOIN TRANS ON WORK.WORKID = TRANS.WORKID
WHERE TRANS.SALESPRICE > 10000;
```

c) Display the first and last names of all customers who bought a painting for more than $10,000.
Each name must appear only once.

SELECT DISTINCT CUSTOMER.FIRSTNAME, CUSTOMER.LASTNAME
FROM CUSTOMER
JOIN TRANS ON CUSTOMER.CUSTOMERID = TRANS.CUSTOMERID
WHERE TRANS.SALESPRICE > 10000;

d) Display the First and Last Names and Nationalities of all artists who were born between the years
1850 and 1900.

SELECT FIRSTNAME, LASTNAME, NATIONALITY
FROM ARTIST
WHERE DATEOFBIRTH BETWEEN 1850 AND 1900;

e) Display the titles of all paintings that were either painted by a French artist, or bought by a
customer from France. Each title must appear once.

SELECT DISTINCT WORK.TITLE
FROM WORK
LEFT JOIN ARTIST ON WORK.ARTISTID = ARTIST.ARTISTID
LEFT JOIN TRANS ON WORK.WORKID = TRANS.WORKID
LEFT JOIN CUSTOMER ON TRANS.CUSTOMERID = CUSTOMER.CUSTOMERID
WHERE ARTIST.NATIONALITY = 'French' OR CUSTOMER.COUNTRY = 'France';