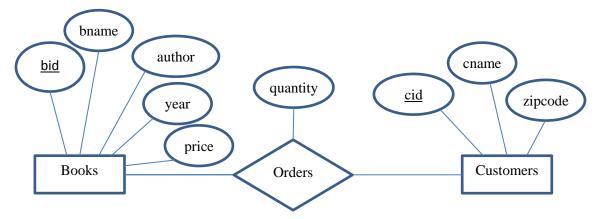
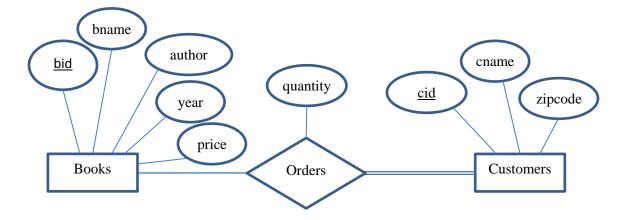
Q1.

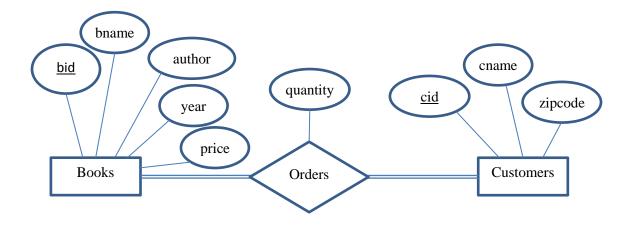
a)

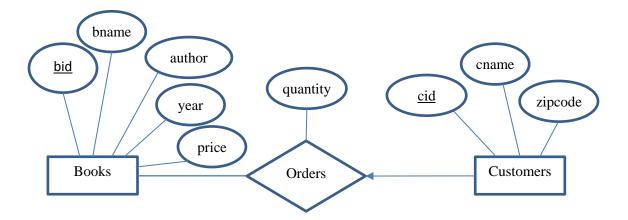


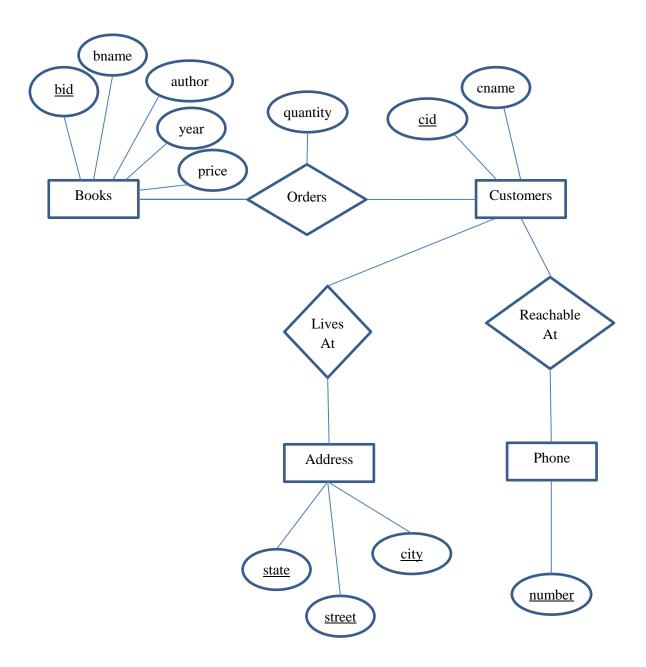
b)

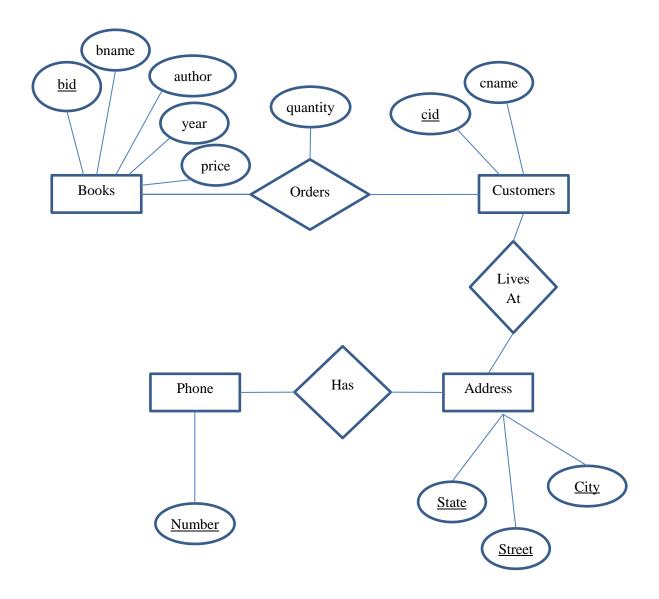


c)









```
Q2.
```

- a) The set with all tuples (a,b) where one or both of the conditions below are true:
 a = 10 and b is any integer or null.
 a is any integer or null and b = 20.
- b) The set containing exactly the tuple (10,20).
- c) The set with all tuples (a, b) where a is any integer and is not null, and b is any integer or null.
- d) The set of all tuples (a, b) where a and b are the same integer that is not null.

Q3.

a)

CREATE VIEW BestSeller(BookID, Title, Author, Amount) AS

SELECT B.bid, B.bname, B.author, SUM (B.price * O.quantity)

FROM Books B, Orders O

WHERE B.bid = O.bid

GROUP BY B.bid, B.bname, B.author

HAVING SUM(O.quantity) > 100000;

SELECT BS.BookID, BS.Title, BS.Author

FROM BestSeller BS

WHERE BS.Amount = (SELECT MAX(Amount) from BestSeller);

```
c)

SELECT BS.Author

FROM BestSeller BS

WHERE BS.Author IN (

SELECT TMP.Author

FROM(

SELECT BS1.Author, SUM(BS1.Amount) AS Revenue

FROM BestSeller BS1

GROUPBY BS1.Author) TMP

WHERE TMP.Revenue = (SELECT (MAX(Revenue ) FROM TMP))

);
```