```
Order#, Ship-date
a) SELECT
   FROM
          SHIPMENT
   WHERE
          Warehouse#=W2;
b) SELECT
           O. Order#, O. Warehouse#
          CUSTOMER AS C, ORDER AS O, SHIPMENT AS S
   FROM
           C. Chame = 'Jose Lopez' AND C. Cust# = O. Cust# AND O. Order# = S. Order#;
   WHERE
c) SELECT (name, COUNT(*), AVG (Ord-amt)
          CUSTOMER, ORDER
   FROM
          CUSTOM ER. Cust# = ORDER. Cust#
   WHERE
   GROUP BY Crame;
 d) SELECT
          ORDER. Order#
          ORDER, SHIPMENT
   FROM
   WHERE Odate + 30 < Ship-date AND ORDER. Order# = SHIPMENT. Order#;
e) SELECT
           Order#
         SHIPMENT, WAREHOUSE
   FROM
          SHIPMENT. Warehouse# = WAREHOUSE. Warehouse# AND (ity = New York';
                                         Question 2
 a) SELECT Fname, Minit, Lname
   FROM EMPLOYEE, PROJECT, WORKS ON
   WHERE Primber = Pro AND Essn = Ssn AND Dro = 5 AND Prime = 'Product X' AND Hours > 10 Per Week;
 b) SELECT Frame, Minit, Lname
    FROM (EMPLOYEE JOIN DEPENDENT ON SSn = Essn)
    WHERE Frame = Dependent_name;
  c) SELECT E. Fname, E. Minit, E. Lname
```

EMPLOYEE AS S

S. Frame = 'Franklin' AND S. Lname = 'Wong');

FROM EMPLOYEE AS E

WHERE E. Super-ssn IN (SELECT SSn

FROM

WHERE

```
CREATE TABLE BOOK
                                   NOT NULL,
                       INT
         (Book-id
          Title
                     VARCHAR
                                   NOT NULL,
          Publisher name VARCHAR
         PRIMARY KEY (Book_id),
         FOREIGN KEY (Publisher_name) REFERENCES PUBLISHER (Name),
                                                   ON UPDATE CASCADE);
                               ON DELETE SET NULL
        TABLE BOOK_AUTHORS
CREATE
         (BOOK-id INT
                                  NOT NULL,
          Author-hame VARCHAR
                                  NOT NULL,
          PRIMARY KEY (Book-id, Author-name),
          FOREIGN KEY (BOOK-id) REFERENCES BOOK (BOOK-id),
                                                    ON UPDATE (ASCADE);
                              ON DELETE SET NULL
CREATE TABLE PUBLISHER
                     VARCHAR
                                  NOT NULL,
         (Name
                     VARCHAR,
          ADDRESS
                       INT,
          Phone
          PRIMARY KEY (Name):
         TABLE BOOK COPIES
 CREATE
         ( Book-id INT
                                NOT NULL,
           Branch-id INT
                                NOT NULL,
           No-of-copies INT,
          PRIMARY KEY (Book-id, Branch-id),
          FOREIGN KEY (Book-id) REFERENCES BOOK (Book-id),
          FOREIGN KEY (Branch-id) REFERENCES LIBRARY_BRANCH (Branch-id));
                BOOK_LOANS
CREATE
         TABLE
          (Book - id
                    INT
                                NOT NULL,
           Branch-id INT
                                NOT NULL,
           Card-no
                                NOT NULL,
                       INT
           Date-out
                      DATE,
          Due date DATE,
          PRIMARY KEY (Book-id, Branch-id, Card-no),
           FOREIGN KEY (Book-id) REFERENCES BOOK (Book-id),
          FOREIGN KEY (Branch-id) REFERENCES LIBRARY BRANCH (Branch-id),
           FOREIGN KEY ( (ard-no) REFERENCES BORROWER ( Card-no) );
CREATE TABLE LIBRARY_BRANCH
       ( Branch-id INT NOT NULL,
         Branch - name VARCHAR,
         Address
                  VARCHAR,
        PRIMARY KEY (Branch-id),
        UNIQUE (Branch -name));
```

CREATE TABLE BORROWER

(Card-no INT NOTNULL,

Name VARCHAR,

Address VARCHAR,

Phone INT,

PRIMARY KEY ((ard-no));

{Z,Y,X | (3A)(3B)(3C)(3D)(3E)(3F)(3j)(3K)(BOOK(A,Z,-) A BORROWER(B,Y,X,-) A LIBRARY BRANCH(E,K,-) A
BOOK-LOANS (D,E,F,-,j) A A=D A E=C A B=F A j=today A K='Sharpstown')}