**Question-1 (Drop all existing tables from your database and execute the Assigment-3.sql script.)**

DROP TABLE TESTING;

DROP TABLE TEST1;

DROP TABLE STUDENT;

DROP TABLE PUBLISHER;

DROP TABLE PROMOTION;

DROP TABLE PERSONS2;

DROP TABLE ORDERS;

DROP TABLE ORDERITEMS;

DROP TABLE NEW\_DEPT;

DROP TABLE JOB;

DROP TABLE IDENTITY\_DEMO;

DROP TABLE HOTEL;

DROP TABLE EMPLOYEE;

DROP TABLE EMP11\_MASTER;

DROP TABLE EMP11;

DROP TABLE EMP;

DROP TABLE DEPT;

DROP TABLE CUSTOMERS;

DROP TABLE CUSTOMER;

DROP TABLE CBOOK;

DROP TABLE BOOK\_CATALOG;

DROP TABLE BOOKS;

DROP TABLE BOOKAUTHOR;

DROP TABLE AUTHOR;

DROP TABLE ANOTHER\_NEW\_DEPT;

DROP TABLE ACCTMANAGER;

DROP TABLE ACCTBONUS;

A screenshot of a computer

Description automatically generated

**Question-2 (Create a list that displays the title of each magazine and the name and phone number of the contact at the publisher’s office for reordering each magazine.)**

**--Traditional Approach**

SELECT

m.MAG\_TITLE,

p.NAME,

P.PHONE

FROM Magazines m, Publisher p

WHERE m.PUBID = p.PUBID;

**--Using Join Keyword**

SELECT m.mag\_title, p.name, p.phone

FROM Magazines m

JOIN Publisher p ON m.pubid = p.pubid;

A screenshot of a computer

Description automatically generated

**Question\_3 (Determine which orders haven’t yet shipped and the name of the customer who placed the order. Sort the results by the customer number.)**

**--Traditional Approach**

SELECT O.SHIPDATE,

C.FIRSTNAME,

C.LASTNAME

FROM ORDERS O, CUSTOMERS C

WHERE O.CUSTOMER# = C.CUSTOMER#

AND O.SHIPDATE IS NULL

ORDER BY c.customer#;

**--Using Join Keyword**

SELECT 0.SHIPDATE, C.FIRSTNAME, C.LASTNAME

FROM CUSTOMERS C

LEFT JOIN ORDERS O ON O.CUSTOMER# = O.CUSTOMER#

WHERE O.SHIPDATE IS NULL

ORDER BY C.CUSTOMER#;

A screenshot of a computer

Description automatically generated

**Question\_4 (Produce a list of all customers who live in the state of Florida and have ordered a magazine about fitness.)**

**--Traditional Approach**

SELECT C.FIRSTNAME, C.LASTNAME

FROM CUSTOMERS C

WHERE C.STATE = 'FL' AND

C.CUSTOMER# IN (

SELECT O.CUSTOMER#

FROM ORDERS O

WHERE O.ORDER# IN (

SELECT OI.ORDER#

FROM ORDERITEMS OI, MAGAZINES M

WHERE OI.MAG\_ID = M.MAG\_ID

AND M.CATEGORY = 'FITNESS'

)

);

**--Using Join Keyword**

SELECT C.FIRSTNAME, C.LASTNAME

FROM CUSTOMERS C

JOIN ORDERS O ON C.CUSTOMER# = O.CUSTOMER#

JOIN ORDERITEMS OI ON O.ORDER# = OI.ORDER#

JOIN MAGAZINES M ON OI.MAG\_ID = M.MAG\_ID

WHERE C.STATE = 'FL' AND

m.category = 'FITNESS';

A screenshot of a computer

Description automatically generated

**Question\_5 (Determine which magazine the customer’s first name STEVE and last name SCHELL has purchased. Perform the search using the customer’s name, not the customer’s number. If he has purchased multiple copies of the same magazine, unduplicated the results.)**

**--Traditional way**

SELECT DISTINCT M.MAG\_TITLE

FROM MAGAZINES M

WHERE M.MAG\_ID IN(

SELECT OI.MAG\_ID

FROM ORDERITEMS OI

WHERE OI.ORDER# IN (

SELECT O.ORDER#

FROM ORDERS O

WHERE O.CUSTOMER# IN (

SELECT C.CUSTOMER#

FROM CUSTOMERS C

WHERE C.FIRSTNAME = 'STEVE' AND C.LASTNAME='SCHELL'

)

)

);

**--Using Join Keyword**

SELECT DISTINCT M.MAG\_TITLE, OI.QUANTITY

FROM MAGAZINES M

JOIN ORDERITEMS OI ON M.MAG\_ID = OI.MAG\_ID

JOIN ORDERS O ON oi.order# = O.ORDER#

JOIN CUSTOMERS C ON O.CUSTOMER# = C.CUSTOMER#

WHERE c.firstname = 'STEVE' AND c.lastname = 'SCHELL';

A screenshot of a computer

Description automatically generated

**Question\_6 (Determine the profit of each sold to STEVE SCHELL, using the actual price the customer paid (not the magazines’ regular retail price). Sort the results by order date. If more than one magazine was ordered, sort the results by profit amount in descending order. Perform the search using the customer name, not the customer number)**

**--Traditional Method**

SELECT O.ORDERDATE, M.MAG\_TITLE, (OI.PAIDEACH - M.COST) AS PROFIT

FROM CUSTOMERS C, ORDERS O, ORDERITEMS OI, MAGAZINES M

WHERE C.CUSTOMER# = O.CUSTOMER#

AND O.ORDER# = OI.ORDER#

AND OI.MAG\_ID = M.MAG\_ID

AND C.FIRSTNAME = 'STEVE' AND C.LASTNAME = 'SCHELL'

ORDER BY O.ORDERDATE, PROFIT DESC;

**--Using Join Keyword**

SELECT O.ORDERDATE, M.MAG\_TITLE, (OI.PAIDEACH - M.COST) AS PROFIT

FROM CUSTOMERS C

JOIN ORDERS O ON C.CUSTOMER# = O.CUSTOMER#

JOIN ORDERITEMS OI ON O.ORDER# = OI.ORDER#

JOIN MAGAZINES M ON OI.MAG\_ID = M.MAG\_ID

WHERE C.FIRSTNAME = 'STEVE' AND C.LASTNAME = 'SCHELL'

ORDER BY O.ORDERDATE, PROFIT DESC;

A screenshot of a computer

Description automatically generated

**Question\_7 (What gift will a customer who orders the magazine Shortest Poems receive? Use the actual magazine retail value to determine the gift.)**

**--Traditional Method**

SELECT C.FIRSTNAME,

C.LASTNAME,

M.MAG\_TITLE,

P.GIFT

FROM CUSTOMERS C,

MAGAZINES M,

PROMOTION P,

ORDERS O,

ORDERITEMS OI

WHERE C.CUSTOMER# = O.CUSTOMER#

AND O.ORDER# = OI.ORDER#

AND OI.MAG\_ID = M.MAG\_ID

AND M.MAG\_TITLE = 'SHORTEST POEMS'

AND M.RETAIL BETWEEN P.MINRETAIL AND P.MAXRETAIL;

**--Using Join Keyword**

SELECT C.FIRSTNAME,

C.LASTNAME,

M.MAG\_TITLE,

P.GIFT

FROM CUSTOMERS C

JOIN ORDERS O ON C.CUSTOMER# = O.CUSTOMER#

JOIN ORDERITEMS OI ON O.ORDER# = OI.ORDER#

JOIN MAGAZINES M ON OI.MAG\_ID = M.MAG\_ID

JOIN PROMOTION P ON M.RETAIL BETWEEN P.MINRETAIL AND P.MAXRETAIL

A screenshot of a computer

Description automatically generatedWHERE M.MAG\_TITLE = 'SHORTEST POEMS';

**Question\_8 (If a magazine has been ordered by a customer, also list the corresponding order number and the state in which the customer resides.)**

**--Traditional Method**

SELECT O.ORDER#,

M.MAG\_TITLE,

C.FIRSTNAME,

C.LASTNAME,

C.STATE

FROM CUSTOMERS C,

ORDERS O,

ORDERITEMS OI,

MAGAZINES M

WHERE C.CUSTOMER# = O.CUSTOMER#

AND O.ORDER# = OI.ORDER#

AND OI.MAG\_ID = M.MAG\_ID;

**--Using Join Keyword**

SELECT O.ORDER#,

M.MAG\_TITLE,

C.FIRSTNAME,

C.LASTNAME,

C.STATE

FROM CUSTOMERS C

JOIN ORDERS O ON C.CUSTOMER# = O.CUSTOMER#

JOIN ORDERITEMS OI ON O.ORDER# = OI.ORDER#

JOIN MAGAZINES M ON OI.MAG\_ID = M.MAG\_ID;

A screenshot of a computer

Description automatically generated