```sql
CREATE TABLE BOOK_TYPE (
   BOOK_TYPEID NUMBER PRIMARY KEY,
   BOOK_TYPENAME VARCHAR2(100)
);


CREATE TABLE PUBLISHER (
   PUBLISHER_ID NUMBER PRIMARY KEY,
   PUBLISHER_NAME VARCHAR2(100)
);


CREATE TABLE AUTHOR (
   AUTHOR_ID NUMBER PRIMARY KEY,
   AUTHOR_FNAME VARCHAR2(50),
   AUTHOR_LNAME VARCHAR2(50)
);


CREATE TABLE BOOK (
   BOOK_ID NUMBER PRIMARY KEY,
   BOOK_NAME VARCHAR2(200),
   PRICE NUMBER(10,2),
   BOOK_TYPEID NUMBER,
   PUBLISHER_ID NUMBER,
   CONSTRAINT fk_book_booktype FOREIGN KEY (BOOK_TYPEID) REFERENCES
BOOK_TYPE(BOOK_TYPEID),
   CONSTRAINT fk_book_publisher FOREIGN KEY (PUBLISHER_ID) REFERENCES
PUBLISHER(PUBLISHER_ID)
);


CREATE TABLE CUSTOMER_TYPE (
   CUST_TYPEID NUMBER PRIMARY KEY,
   CUST_TYPENAME VARCHAR2(50),
   PDISCOUNT NUMBER(3)
```

```sql
);

CREATE TABLE CUSTOMER (
    CUST_ID NUMBER PRIMARY KEY,
    CUST_FNAME VARCHAR2(50),
    CUST_LNAME VARCHAR2(50),
    CUST_AGE NUMBER,
    CUST_TYPEID NUMBER,
    CONSTRAINT fk_customer_type FOREIGN KEY (CUST_TYPEID) REFERENCES
CUSTOMER_TYPE(CUST_TYPEID)
);

CREATE TABLE SALEMAN (
    SALE_ID NUMBER PRIMARY KEY,
    SALE_NAME VARCHAR2(50),
    SALE_TEL VARCHAR2(20),
    SALARY NUMBER(10,2)
);

CREATE TABLE PROMO_SET (
    PSET_ID NUMBER PRIMARY KEY,
    PSET_ST_DATE DATE,
    PSET_END_DATE DATE,
    PSET_PRICE NUMBER(10,2)
);

CREATE TABLE SALEORDER (
    ORDER_ID NUMBER PRIMARY KEY,
    ORDER_DATE DATE,
    TOTAL_PRICE NUMBER(10,2),
    CUST_ID NUMBER,
```

```
    SALE_ID NUMBER,

    CONSTRAINT fk_saleorder_customer FOREIGN KEY (CUST_ID) REFERENCES
CUSTOMER(CUST_ID),

    CONSTRAINT fk_saleorder_saleman FOREIGN KEY (SALE_ID) REFERENCES
SALEMAN(SALE_ID)

);


CREATE TABLE ORDER_DETAIL (

    ORDER_ID NUMBER,

    SEQ_ID NUMBER,

    BOOK_ID NUMBER,

    PSET_ID NUMBER,

    QTY NUMBER,

    PRIMARY KEY (ORDER_ID, SEQ_ID),

    CONSTRAINT fk_orderdetail_order FOREIGN KEY (ORDER_ID) REFERENCES
SALEORDER(ORDER_ID),

    CONSTRAINT fk_orderdetail_book FOREIGN KEY (BOOK_ID) REFERENCES BOOK(BOOK_ID),

    CONSTRAINT fk_orderdetail_pset FOREIGN KEY (PSET_ID) REFERENCES
PROMO_SET(PSET_ID)

);


CREATE TABLE WRITE (

    BOOK_ID NUMBER,

    AUTHOR_ID NUMBER,

    PRIMARY KEY (BOOK_ID, AUTHOR_ID),

    CONSTRAINT fk_write_book FOREIGN KEY (BOOK_ID) REFERENCES BOOK(BOOK_ID),

    CONSTRAINT fk_write_author FOREIGN KEY (AUTHOR_ID) REFERENCES
AUTHOR(AUTHOR_ID)

);


CREATE TABLE IS_INSET (

    BOOK_ID NUMBER,

    PSET_ID NUMBER,
```

```sql
    PRIMARY KEY (BOOK_ID, PSET_ID),

    CONSTRAINT fk_isinset_book FOREIGN KEY (BOOK_ID) REFERENCES BOOK(BOOK_ID),

    CONSTRAINT fk_isinset_pset FOREIGN KEY (PSET_ID) REFERENCES PROMO_SET(PSET_ID)
);


INSERT ALL

 INTO AUTHOR (AUTHOR_ID, AUTHOR_FNAME, AUTHOR_LNAME) VALUES (1,'ปรีชา','วงศ์หิรัญเดชา')

 INTO AUTHOR (AUTHOR_ID, AUTHOR_FNAME, AUTHOR_LNAME) VALUES (2,'Bill','Pribyl')

 INTO AUTHOR (AUTHOR_ID, AUTHOR_FNAME, AUTHOR_LNAME) VALUES
(3,'Steven','Feuerstein')

 INTO AUTHOR (AUTHOR_ID, AUTHOR_FNAME, AUTHOR_LNAME) VALUES (4,'โชติ','แพร่พันธุ์')

 INTO AUTHOR (AUTHOR_ID, AUTHOR_FNAME, AUTHOR_LNAME) VALUES (5,'ทมยันตี','วิมล')

 INTO AUTHOR (AUTHOR_ID, AUTHOR_FNAME, AUTHOR_LNAME) VALUES (6,'วณประมวลมารค','ว')

 INTO AUTHOR (AUTHOR_ID, AUTHOR_FNAME, AUTHOR_LNAME) VALUES (7,'บุษยมาส','บุษ')

 INTO AUTHOR (AUTHOR_ID, AUTHOR_FNAME, AUTHOR_LNAME) VALUES (8,'Barbara','Wixom')

 INTO AUTHOR (AUTHOR_ID, AUTHOR_FNAME, AUTHOR_LNAME) VALUES (9,'Alan','Dennis')

 INTO AUTHOR (AUTHOR_ID, AUTHOR_FNAME, AUTHOR_LNAME) VALUES (10,'Roberta','Roth')

 INTO AUTHOR (AUTHOR_ID, AUTHOR_FNAME, AUTHOR_LNAME) VALUES
(11,'Shamkant','Navathe')

 INTO AUTHOR (AUTHOR_ID, AUTHOR_FNAME, AUTHOR_LNAME) VALUES (12,'Akira','Toriyama')

 INTO AUTHOR (AUTHOR_ID, AUTHOR_FNAME, AUTHOR_LNAME) VALUES
(13,'Momoko','Sakura')

 INTO AUTHOR (AUTHOR_ID, AUTHOR_FNAME, AUTHOR_LNAME) VALUES (14,'Laura','Ingall')

 INTO AUTHOR (AUTHOR_ID, AUTHOR_FNAME, AUTHOR_LNAME) VALUES (15,'Newyork','Times')

 INTO AUTHOR (AUTHOR_ID, AUTHOR_FNAME, AUTHOR_LNAME) VALUES (16,'แม่บ้าน','แม่เรือน')


 INTO BOOK_TYPE (BOOK_TYPEID, BOOK_TYPENAME) VALUES (1,'Computer')

 INTO BOOK_TYPE (BOOK_TYPEID, BOOK_TYPENAME) VALUES (2,'Comics')

 INTO BOOK_TYPE (BOOK_TYPEID, BOOK_TYPENAME) VALUES (3,'Novel')

 INTO BOOK_TYPE (BOOK_TYPEID, BOOK_TYPENAME) VALUES (4,'Magazine')
```

INTO BOOK_TYPE (BOOK_TYPEID, BOOK_TYPENAME) VALUES (5,'Children')

INTO BOOK_TYPE (BOOK_TYPEID, BOOK_TYPENAME) VALUES (6,'Maththematics')

INTO BOOK_TYPE (BOOK_TYPEID, BOOK_TYPENAME) VALUES (7,'Art')

INTO PUBLISHER (PUBLISHER_ID, PUBLISHER_NAME) VALUES (1,'Chula Bookcenter')

INTO PUBLISHER (PUBLISHER_ID, PUBLISHER_NAME) VALUES (2,'Dokya')

INTO PUBLISHER (PUBLISHER_ID, PUBLISHER_NAME) VALUES (3,'NaiInn')

INTO PUBLISHER (PUBLISHER_ID, PUBLISHER_NAME) VALUES (4,'SeEd Book')

INTO PUBLISHER (PUBLISHER_ID, PUBLISHER_NAME) VALUES (5,'Mcgrawhill')

INTO PUBLISHER (PUBLISHER_ID, PUBLISHER_NAME) VALUES (6,'PraePittaya')

INTO PUBLISHER (PUBLISHER_ID, PUBLISHER_NAME) VALUES (7,'Odean Store')

INTO PUBLISHER (PUBLISHER_ID, PUBLISHER_NAME) VALUES (8,'Siam Sport')

INTO PUBLISHER (PUBLISHER_ID, PUBLISHER_NAME) VALUES (9,'Vibulkit')

INTO PUBLISHER (PUBLISHER_ID, PUBLISHER_NAME) VALUES (10,'NewYork Times')

INTO BOOK (BOOK_ID, BOOK_NAME, PRICE, BOOK_TYPEID, PUBLISHER_ID) VALUES (1,'ระบบฐานข้อมูลเบื้องต้น',350,1,1)

INTO BOOK (BOOK_ID, BOOK_NAME, PRICE, BOOK_TYPEID, PUBLISHER_ID) VALUES (2,'Time Magazine',250,4,10)

INTO BOOK (BOOK_ID, BOOK_NAME, PRICE, BOOK_TYPEID, PUBLISHER_ID) VALUES (3,'ผู้ชนะสิบทิศ',1050,3,6)

INTO BOOK (BOOK_ID, BOOK_NAME, PRICE, BOOK_TYPEID, PUBLISHER_ID) VALUES (4,'อย่าลืมฉัน',290,3,3)

INTO BOOK (BOOK_ID, BOOK_NAME, PRICE, BOOK_TYPEID, PUBLISHER_ID) VALUES (5,'Advanced Calculus',450,6,5)

INTO BOOK (BOOK_ID, BOOK_NAME, PRICE, BOOK_TYPEID, PUBLISHER_ID) VALUES (6,'System Analysis and Design',2290,1,5)

INTO BOOK (BOOK_ID, BOOK_NAME, PRICE, BOOK_TYPEID, PUBLISHER_ID) VALUES (7,'Chibi Maruko',350,2,8)

INTO BOOK (BOOK_ID, BOOK_NAME, PRICE, BOOK_TYPEID, PUBLISHER_ID) VALUES (8,'Shinosuke',250,2,9)

INTO BOOK (BOOK_ID, BOOK_NAME, PRICE, BOOK_TYPEID, PUBLISHER_ID) VALUES (9,'Paddington',490,5,4)

INTO BOOK (BOOK_ID, BOOK_NAME, PRICE, BOOK_TYPEID, PUBLISHER_ID) VALUES (10,'บ้านเล็กในป่าใหญ่',1350,5,2)

INTO BOOK (BOOK_ID, BOOK_NAME, PRICE, BOOK_TYPEID, PUBLISHER_ID) VALUES (11,'Database Management System',990,1,5)

INTO BOOK (BOOK_ID, BOOK_NAME, PRICE, BOOK_TYPEID, PUBLISHER_ID) VALUES (12,'Thai Dessert',750,7,7)

INTO BOOK (BOOK_ID, BOOK_NAME, PRICE, BOOK_TYPEID, PUBLISHER_ID) VALUES (13,'แกะสลักผักผลไม้',120,7,3)

INTO BOOK (BOOK_ID, BOOK_NAME, PRICE, BOOK_TYPEID, PUBLISHER_ID) VALUES (14,'หนึ่งในทรวง',490,3,3)

INTO BOOK (BOOK_ID, BOOK_NAME, PRICE, BOOK_TYPEID, PUBLISHER_ID) VALUES (15,'ปริศนา',390,3,2)

INTO BOOK (BOOK_ID, BOOK_NAME, PRICE, BOOK_TYPEID, PUBLISHER_ID) VALUES (16,'เทคนิคการทำเหมืองข้อมูล',290,1,1)

INTO BOOK (BOOK_ID, BOOK_NAME, PRICE, BOOK_TYPEID, PUBLISHER_ID) VALUES (17,'Reader Digest',300,4,10)

INTO BOOK (BOOK_ID, BOOK_NAME, PRICE, BOOK_TYPEID, PUBLISHER_ID) VALUES (18,'คู่กรรม',400,3,3)

INTO CUSTOMER_TYPE (CUST_TYPEID, CUST_TYPENAME, PDISCOUNT) VALUES (1,'Ordinary',5)

INTO CUSTOMER_TYPE (CUST_TYPEID, CUST_TYPENAME, PDISCOUNT) VALUES (2,'VIP',10)

INTO CUSTOMER_TYPE (CUST_TYPEID, CUST_TYPENAME, PDISCOUNT) VALUES (3,'Premium',15)

INSERT ALL

INTO CUSTOMER (CUST_ID, CUST_FNAME, CUST_LNAME, CUST_TYPEID, CUST_AGE) VALUES (1,'Pakorn','Pornpisut',3,60)

INTO CUSTOMER (CUST_ID, CUST_FNAME, CUST_LNAME, CUST_TYPEID, CUST_AGE) VALUES (2,'Suchart','Chawangkul',2,45)

INTO CUSTOMER (CUST_ID, CUST_FNAME, CUST_LNAME, CUST_TYPEID, CUST_AGE) VALUES (3,'Sunida','Ratanothayanon',2,50)

INTO CUSTOMER (CUST_ID, CUST_FNAME, CUST_LNAME, CUST_TYPEID, CUST_AGE) VALUES (4,'Sukanya','Ratanothayanon',1,45)

INTO CUSTOMER (CUST_ID, CUST_FNAME, CUST_LNAME, CUST_TYPEID, CUST_AGE) VALUES (5,'Pennee','Wangmetheekul',3,55)

INTO CUSTOMER (CUST_ID, CUST_FNAME, CUST_LNAME, CUST_TYPEID, CUST_AGE) VALUES (6,'Nadech','Kukimiya',1,30)

INTO CUSTOMER (CUST_ID, CUST_FNAME, CUST_LNAME, CUST_TYPEID, CUST_AGE) VALUES (7,'Issarapong','Dokyor',3,33)

INTO CUSTOMER (CUST_ID, CUST_FNAME, CUST_LNAME, CUST_TYPEID, CUST_AGE) VALUES (8,'Yaya','Urassaya',2,25)

INTO CUSTOMER (CUST_ID, CUST_FNAME, CUST_LNAME, CUST_TYPEID, CUST_AGE) VALUES (9,'Sathaporn','Nakwilai',1,28)

INTO CUSTOMER (CUST_ID, CUST_FNAME, CUST_LNAME, CUST_TYPEID, CUST_AGE) VALUES (10,'Sithichai','Yun',3,76)

INTO CUSTOMER (CUST_ID, CUST_FNAME, CUST_LNAME, CUST_TYPEID, CUST_AGE) VALUES (11,'Diana','Flipo',2,20)

INTO CUSTOMER (CUST_ID, CUST_FNAME, CUST_LNAME, CUST_TYPEID, CUST_AGE) VALUES (12,'Somchai','Decha',1,18)

INTO SALEMAN (SALE_ID, SALE_NAME, SALARY) VALUES (1,'Jomchai',18000)

INTO SALEMAN (SALE_ID, SALE_NAME, SALARY) VALUES (2,'Penchan',15000)

INTO SALEMAN (SALE_ID, SALE_NAME, SALARY) VALUES (3,'Chantra',30000)

INTO SALEMAN (SALE_ID, SALE_NAME, SALARY) VALUES (4,'Kusuma',19000)

INTO SALEMAN (SALE_ID, SALE_NAME, SALARY) VALUES (5,'Kanthima',48000)

INTO SALEMAN (SALE_ID, SALE_NAME, SALARY) VALUES (6,'Suphachai',50000)

INTO SALEMAN (SALE_ID, SALE_NAME, SALARY) VALUES (7,'Jittinun',12000)

INTO SALEMAN (SALE_ID, SALE_NAME, SALARY) VALUES (8,'Wanthanee',22000)

INTO PROMO_SET (PSET_ID, PSET_ST_DATE, PSET_END_DATE, PSET_PRICE) VALUES (1, DATE '2024-06-01', DATE '2024-07-31', 3500)

INTO PROMO_SET (PSET_ID, PSET_ST_DATE, PSET_END_DATE, PSET_PRICE) VALUES (2, DATE '2024-05-01', DATE '2024-08-30', 1000)

INTO PROMO_SET (PSET_ID, PSET_ST_DATE, PSET_END_DATE, PSET_PRICE) VALUES (3, DATE '2024-01-01', DATE '2024-03-31', 800)

INTO PROMO_SET (PSET_ID, PSET_ST_DATE, PSET_END_DATE, PSET_PRICE) VALUES (4, DATE '2024-02-01', DATE '2024-04-30', 1000)

INTO PROMO_SET (PSET_ID, PSET_ST_DATE, PSET_END_DATE, PSET_PRICE) VALUES (5, DATE '2024-05-01', DATE '2024-06-30', 700)

INTO PROMO_SET (PSET_ID, PSET_ST_DATE, PSET_END_DATE, PSET_PRICE) VALUES (6, DATE '2024-05-01', DATE '2024-08-30', 500)

INTO IS_INSET (BOOK_ID, PSET_ID) VALUES (1,1)

INTO IS_INSET (BOOK_ID, PSET_ID) VALUES (6,1)

INTO IS_INSET (BOOK_ID, PSET_ID) VALUES (11,1)

INTO IS_INSET (BOOK_ID, PSET_ID) VALUES (1,5)

INTO IS_INSET (BOOK_ID, PSET_ID) VALUES (5,5)

INTO IS_INSET (BOOK_ID, PSET_ID) VALUES (12,3)

INTO IS_INSET (BOOK_ID, PSET_ID) VALUES (13,3)

INTO IS_INSET (BOOK_ID, PSET_ID) VALUES (7,4)

INTO IS_INSET (BOOK_ID, PSET_ID) VALUES (8,4)

INTO IS_INSET (BOOK_ID, PSET_ID) VALUES (9,4)

INTO IS_INSET (BOOK_ID, PSET_ID) VALUES (7,6)

INTO IS_INSET (BOOK_ID, PSET_ID) VALUES (8,6)

INTO IS_INSET (BOOK_ID, PSET_ID) VALUES (4,2)

INTO IS_INSET (BOOK_ID, PSET_ID) VALUES (14,2)

INTO IS_INSET (BOOK_ID, PSET_ID) VALUES (15,2)

INTO WRITE (BOOK_ID, AUTHOR_ID) VALUES (1,1)

INTO WRITE (BOOK_ID, AUTHOR_ID) VALUES (16,1)

INTO WRITE (BOOK_ID, AUTHOR_ID) VALUES (2,15)

INTO WRITE (BOOK_ID, AUTHOR_ID) VALUES (17,15)

INTO WRITE (BOOK_ID, AUTHOR_ID) VALUES (3,4)

INTO WRITE (BOOK_ID, AUTHOR_ID) VALUES (4,5)

INTO WRITE (BOOK_ID, AUTHOR_ID) VALUES (18,5)

INTO WRITE (BOOK_ID, AUTHOR_ID) VALUES (5,2)

INTO WRITE (BOOK_ID, AUTHOR_ID) VALUES (6,8)

INTO WRITE (BOOK_ID, AUTHOR_ID) VALUES (6,9)

INTO WRITE (BOOK_ID, AUTHOR_ID) VALUES (6,10)

INTO WRITE (BOOK_ID, AUTHOR_ID) VALUES (7,13)

INTO WRITE (BOOK_ID, AUTHOR_ID) VALUES (8,12)

INTO WRITE (BOOK_ID, AUTHOR_ID) VALUES (12,16)

INTO WRITE (BOOK_ID, AUTHOR_ID) VALUES (13,16)

INTO WRITE (BOOK_ID, AUTHOR_ID) VALUES (9,14)

INTO WRITE (BOOK_ID, AUTHOR_ID) VALUES (10,14)

INTO WRITE (BOOK_ID, AUTHOR_ID) VALUES (11,11)

INTO WRITE (BOOK_ID, AUTHOR_ID) VALUES (14,7)

INTO WRITE (BOOK_ID, AUTHOR_ID) VALUES (15,6)

INTO SALEORDER (ORDER_ID, ORDER_DATE, TOTAL_PRICE, CUST_ID, SALE_ID) VALUES (1, DATE '2024-06-01', 0, 1, 4)

INTO SALEORDER (ORDER_ID, ORDER_DATE, TOTAL_PRICE, CUST_ID, SALE_ID) VALUES (2, DATE '2024-06-27', 0, 1, 5)

INTO SALEORDER (ORDER_ID, ORDER_DATE, TOTAL_PRICE, CUST_ID, SALE_ID) VALUES (3, DATE '2024-02-28', 0, 1, 2)

INTO SALEORDER (ORDER_ID, ORDER_DATE, TOTAL_PRICE, CUST_ID, SALE_ID) VALUES (4, DATE '2024-03-02', 0, 3, 5)

INTO SALEORDER (ORDER_ID, ORDER_DATE, TOTAL_PRICE, CUST_ID, SALE_ID) VALUES (5, DATE '2024-04-13', 0, 3, 8)

INTO SALEORDER (ORDER_ID, ORDER_DATE, TOTAL_PRICE, CUST_ID, SALE_ID) VALUES (6, DATE '2024-02-11', 0, 5, 1)

INTO SALEORDER (ORDER_ID, ORDER_DATE, TOTAL_PRICE, CUST_ID, SALE_ID) VALUES (7, DATE '2024-04-10', 0, 5, 3)

INTO SALEORDER (ORDER_ID, ORDER_DATE, TOTAL_PRICE, CUST_ID, SALE_ID) VALUES (8, DATE '2024-05-22', 0, 4, 3)

INTO SALEORDER (ORDER_ID, ORDER_DATE, TOTAL_PRICE, CUST_ID, SALE_ID) VALUES (9, DATE '2024-05-22', 0, 8, 6)

INTO SALEORDER (ORDER_ID, ORDER_DATE, TOTAL_PRICE, CUST_ID, SALE_ID) VALUES (10, DATE '2024-01-24', 0, 7, 7)

INTO SALEORDER (ORDER_ID, ORDER_DATE, TOTAL_PRICE, CUST_ID, SALE_ID) VALUES (11, DATE '2024-03-12', 0, 2, 1)

INTO SALEORDER (ORDER_ID, ORDER_DATE, TOTAL_PRICE, CUST_ID, SALE_ID) VALUES (12, DATE '2024-03-13', 0, 2, 2)

  INTO SALEORDER (ORDER_ID, ORDER_DATE, TOTAL_PRICE, CUST_ID, SALE_ID) VALUES (13, DATE '2024-04-13', 0, 2, 1)

  INTO SALEORDER (ORDER_ID, ORDER_DATE, TOTAL_PRICE, CUST_ID, SALE_ID) VALUES (14, DATE '2024-05-09', 0, 2, 8)

  INTO SALEORDER (ORDER_ID, ORDER_DATE, TOTAL_PRICE, CUST_ID, SALE_ID) VALUES (15, DATE '2024-05-09', 0, 6, 4)

  INTO SALEORDER (ORDER_ID, ORDER_DATE, TOTAL_PRICE, CUST_ID, SALE_ID) VALUES (16, DATE '2024-05-12', 0, 9, 1)

  INTO SALEORDER (ORDER_ID, ORDER_DATE, TOTAL_PRICE, CUST_ID, SALE_ID) VALUES (17, DATE '2024-05-12', 0, 10, 1)

  INTO SALEORDER (ORDER_ID, ORDER_DATE, TOTAL_PRICE, CUST_ID, SALE_ID) VALUES (18, DATE '2024-06-12', 0, 11, 3)

  INTO SALEORDER (ORDER_ID, ORDER_DATE, TOTAL_PRICE, CUST_ID, SALE_ID) VALUES (19, DATE '2024-02-12', 0, 12, 3)

  INTO SALEORDER (ORDER_ID, ORDER_DATE, TOTAL_PRICE, CUST_ID, SALE_ID) VALUES (20, DATE '2024-03-08', 0, 12, 4)

  INTO SALEORDER (ORDER_ID, ORDER_DATE, TOTAL_PRICE, CUST_ID, SALE_ID) VALUES (21, DATE '2024-02-01', 0, 12, 2)

  INTO ORDER_DETAIL (ORDER_ID, SEQ_ID, BOOK_ID, PSET_ID, QTY) VALUES (1, 1, 3, NULL, 1)

  INTO ORDER_DETAIL (ORDER_ID, SEQ_ID, BOOK_ID, PSET_ID, QTY) VALUES (1, 2, 2, NULL, 1)

  INTO ORDER_DETAIL (ORDER_ID, SEQ_ID, BOOK_ID, PSET_ID, QTY) VALUES (1, 3, NULL, 2, 1)

  INTO ORDER_DETAIL (ORDER_ID, SEQ_ID, BOOK_ID, PSET_ID, QTY) VALUES (2, 1, 9, NULL, 1)

  INTO ORDER_DETAIL (ORDER_ID, SEQ_ID, BOOK_ID, PSET_ID, QTY) VALUES (2, 2, 2, NULL, 1)

  INTO ORDER_DETAIL (ORDER_ID, SEQ_ID, BOOK_ID, PSET_ID, QTY) VALUES (2, 3, 15, NULL, 1)

  INTO ORDER_DETAIL (ORDER_ID, SEQ_ID, BOOK_ID, PSET_ID, QTY) VALUES (2, 4, 18, NULL, 2)

SELECT * FROM dual;

SELECT table_name FROM all_tables WHERE owner ='WKSP_JEERANAN149';

SELECT c.CUST_ID,

```sql
    c.CUST_FNAME,
    c.CUST_LNAME,
    ct.CUST_TYPENAME
FROM CUSTOMER c
JOIN CUSTOMER_TYPE ct ON c.CUST_TYPEID = ct.CUST_TYPEID;


SELECT
    c.CUST_ID,
    c.CUST_FNAME || ' ' || c.CUST_LNAME AS CUSTOMER_NAME,
    ct.CUST_TYPENAME
FROM
    CUSTOMER c
JOIN
    CUSTOMER_TYPE ct ON c.CUST_TYPEID = ct.CUST_TYPEID
WHERE
    UPPER(c.CUST_FNAME) LIKE 'S%'
ORDER BY
    c.CUST_ID;


SELECT
    CUST_ID,
    'คุณ' || CUST_FNAME || ' ' || CUST_LNAME AS CUSTOMER_NAME
FROM
    CUSTOMER;


SELECT BOOK_NAME
FROM BOOK B
JOIN BOOK_TYPE BT ON B.BOOK_TYPEID = BT.BOOK_TYPEID
WHERE BT.BOOK_TYPENAME = 'Computer';


SELECT CUST_ID, CUST_FNAME, CUST_LNAME, CUST_AGE
```

```sql
FROM CUSTOMER

WHERE CUST_AGE BETWEEN 20 AND 40

ORDER BY CUST_ID;


SELECT

    C.CUST_FNAME || ' ' || C.CUST_LNAME AS CUSTOMER_NAME,

    COUNT(S.ORDER_ID) AS ORDER_COUNT

FROM

    CUSTOMER C

LEFT JOIN

    SALEORDER S ON C.CUST_ID = S.CUST_ID

GROUP BY

    C.CUST_FNAME, C.CUST_LNAME

ORDER BY

    CUSTOMER_NAME;


UPDATE SALEORDER SO

SET TOTAL_PRICE = (

    SELECT SUM(

        COALESCE(B.PRICE, 0) * NVL(OD.QTY, 1) +

        COALESCE(P.PSET_PRICE, 0) * NVL(OD.QTY, 1)

      )

    FROM ORDER_DETAIL OD

    LEFT JOIN BOOK B ON OD.BOOK_ID = B.BOOK_ID

    LEFT JOIN PROMO_SET P ON OD.PSET_ID = P.PSET_ID

    WHERE OD.ORDER_ID = SO.ORDER_ID

);


SELECT

    C.CUST_FNAME || ' ' || C.CUST_LNAME AS CUSTOMER_NAME,
```

```sql
    SUM(SO.TOTAL_PRICE) AS SUM_TOTAL_PRICE,

    AVG(SO.TOTAL_PRICE) AS AVG_TOTAL_PRICE,

    MIN(SO.TOTAL_PRICE) AS MIN_TOTAL_PRICE,

    MAX(SO.TOTAL_PRICE) AS MAX_TOTAL_PRICE
FROM SALEORDER SO
JOIN CUSTOMER C ON SO.CUST_ID = C.CUST_ID
GROUP BY C.CUST_FNAME, C.CUST_LNAME
ORDER BY CUSTOMER_NAME;


SELECT
    ct.CUST_TYPENAME AS CUSTOMER_TYPE,

    SUM(so.TOTAL_PRICE) AS SUM_TOTAL_PRICE,

    AVG(so.TOTAL_PRICE) AS AVG_TOTAL_PRICE,

    MIN(so.TOTAL_PRICE) AS MIN_TOTAL_PRICE,

    MAX(so.TOTAL_PRICE) AS MAX_TOTAL_PRICE
FROM
    SALEORDER so
JOIN
    CUSTOMER c ON so.CUST_ID = c.CUST_ID
JOIN
    CUSTOMER_TYPE ct ON c.CUST_TYPEID = ct.CUST_TYPEID
GROUP BY
    ct.CUST_TYPENAME
ORDER BY
    ct.CUST_TYPENAME;


SELECT
    ct.CUST_TYPENAME AS CUSTOMER_TYPE,

    COUNT(c.CUST_ID) AS CUSTOMER_COUNT
FROM
    CUSTOMER c
```

JOIN

  CUSTOMER_TYPE ct ON c.CUST_TYPEID = ct.CUST_TYPEID

GROUP BY

  ct.CUST_TYPENAME

ORDER BY

  CUSTOMER_COUNT DESC;

SELECT

  A.AUTHOR_FNAME || ' ' || A.AUTHOR_LNAME AS AUTHOR_NAME,

  COUNT(W.BOOK_ID) AS BOOK_COUNT

FROM

  AUTHOR A

JOIN

  WRITE W ON A.AUTHOR_ID = W.AUTHOR_ID

GROUP BY

  A.AUTHOR_FNAME, A.AUTHOR_LNAME

HAVING

  COUNT(W.BOOK_ID) >= 2

ORDER BY

  BOOK_COUNT DESC;

SELECT

  C.CUST_ID,

  C.CUST_FNAME || ' ' || C.CUST_LNAME AS CUSTOMER_NAME

FROM

  CUSTOMER C

LEFT JOIN

  SALEORDER S ON C.CUST_ID = S.CUST_ID

WHERE

  S.ORDER_ID IS NULL

ORDER BY

```sql
  C.CUST_ID;


SELECT
  so.ORDER_ID,
  so.ORDER_DATE,
  c.CUST_ID,
  c.CUST_FNAME || ' ' || c.CUST_LNAME AS CUSTOMER_NAME,
  od.BOOK_ID,
  b.BOOK_NAME,
  b.PRICE,
  b.PRICE * od.QTY AS TOTAL_PRICE
FROM
  SALEORDER so
JOIN
  CUSTOMER c ON so.CUST_ID = c.CUST_ID
JOIN
  ORDER_DETAIL od ON so.ORDER_ID = od.ORDER_ID
JOIN
  BOOK b ON od.BOOK_ID = b.BOOK_ID
ORDER BY
  so.ORDER_ID, od.SEQ_ID;


SELECT
  so.ORDER_ID,
  c.CUST_FNAME || ' ' || c.CUST_LNAME AS CUSTOMER_NAME,
  SUM(b.PRICE * od.QTY) AS TOTAL_AMOUNT
FROM
  SALEORDER so
JOIN
  CUSTOMER c ON so.CUST_ID = c.CUST_ID
JOIN
```

```
    ORDER_DETAIL od ON so.ORDER_ID = od.ORDER_ID
JOIN
    BOOK b ON od.BOOK_ID = b.BOOK_ID
GROUP BY
    so.ORDER_ID,
    c.CUST_FNAME,
    c.CUST_LNAME
ORDER BY
    so.ORDER_ID;


SELECT
    so.ORDER_ID,
    c.CUST_FNAME || ' ' || c.CUST_LNAME AS CUSTOMER_NAME,
    SUM(b.PRICE * od.QTY) AS TOTAL_AMOUNT
FROM
    SALEORDER so
JOIN
    CUSTOMER c ON so.CUST_ID = c.CUST_ID
JOIN
    ORDER_DETAIL od ON so.ORDER_ID = od.ORDER_ID
JOIN
    BOOK b ON od.BOOK_ID = b.BOOK_ID
GROUP BY
    so.ORDER_ID,
    c.CUST_FNAME,
    c.CUST_LNAME
HAVING
    SUM(b.PRICE * od.QTY) >= 1000
ORDER BY
    so.ORDER_ID;
```

```sql
SELECT
    b.BOOK_NAME,
    COUNT(DISTINCT od.ORDER_ID) AS ORDER_COUNT
FROM
    BOOK b
JOIN
    ORDER_DETAIL od ON b.BOOK_ID = od.BOOK_ID
GROUP BY
    b.BOOK_NAME
ORDER BY
    ORDER_COUNT DESC;


SELECT
    c.CUST_FNAME || ' ' || c.CUST_LNAME AS CUSTOMER_NAME,
    SUM(so.TOTAL_PRICE) AS TOTAL_PURCHASE
FROM
    CUSTOMER c
JOIN
    SALEORDER so ON c.CUST_ID = so.CUST_ID
GROUP BY
    c.CUST_FNAME, c.CUST_LNAME
ORDER BY
    TOTAL_PURCHASE DESC
FETCH FIRST 3 ROWS ONLY;


SELECT CUST_FNAME || ' ' || CUST_LNAME AS CUSTOMER_NAME, CUST_AGE
FROM CUSTOMER
WHERE CUST_AGE = (SELECT MAX(CUST_AGE) FROM CUSTOMER);
```