SHOW user

SELECT * FROM tab;

CREATE USER <myUser>

IDENTIFIED BY <myPass>

DEFAULT TABLESPACE <tablespace_name>

TEMPORARY TABLESPACE <talbespace_name>

QUOTA UNLIMITED ON <tablespace_name>;

CREATE USER ucs2

IDENTIFIED BY p123

DEFAULT TABLESPACE users

TEMPORARY TABLESPACE temp

QUOTA UNLIMITED ON users;

//ให้ สิทธิ์

GRANT resource, connect To ucs2;

GRANT <prib/rol> TO <myUser>

//create file

CREATE TABLE dogFam(

dogID CHAR(3),

dogName VARCHAR2(20));

```
SET linesize 120


DESC dogFam



#lab 2
CREATE TABLE Student (

        StdID CHAR(11),

        StdFName VARCHAR2(40),

        StdLname VARCHAR2(40),

        StdAddress VARCHAR2(80),

        FCode CHAR(3),

        DCode CHAR(3),


        CONSTRAINTS std_pk PRIMARY KEY(StdID),

        CONSTRAINTS std_fk_fact FOREIGN KEY(FCode)

                REFERENCES Fact(FCode),

        CONSTRAINTS std_fk_dept FOREIGN KEY(FCode, DCode)

                REFERENCES Dept(FCode, DCode)

);


CREATE TABLE Fact (

        FCode           CHAR(3) ,

        FName_Tha       VARCHAR2(80),

        FName_Eng       VARCHAR2(80),

        CONSTRAINTS  fact_pk

                PRIMARY KEY(FCode)

);
```

```
CREATE TABLE Dept (

        FCode CHAR(3),

        DCode CHAR(3),

        DName_Tha VARCHAR2(80),

        DName_Eng VARCHAR2(80),

        CONSTRAINTS  dept_pk

                PRIMARY KEY(DCode, FCode),

        CONSTRAINTS dept_fk_fact FOREIGN KEY(FCode)

                REFERENCES Fact(FCode)

);


----

INSERT INTO <tableName>(col2_name, col1_name)

        VALUES('col2_val', col1_val);


INSERT INTO <tableName> VALUES(col1_val, 'col2_val');


INSERT INTO Loc VALUES('L01', 'SC.06');

INSERT INTO Loc(LName, LID)

        VALUES('SC.09', 'L02');

----

INSERT INTO Fact VALUES('F01', 'คณะวิทยาศาสตร์', 'Science');

INSERT INTO Fact VALUES('F02', 'คณะวิศวกรรมศาสตร์', 'Engineer');

INSERT INTO Fact VALUES('F03', 'คณะเทคโนโลยี', 'Technology');

INSERT INTO Fact VALUES('F04', 'คณะมนุษยศาสตร์และสังคมศาสตร์', 'Humanities and Social Sciences');

INSERT INTO Fact VALUES('F05', 'คณะศึกษาศาสตร์', 'Education');
```

```sql
DELETE FROM Fact WHERE Fcode = 'F01';
DELETE FROM Fact WHERE Fcode = 'F02';
DELETE FROM Fact WHERE Fcode = 'F03';
DELETE FROM Fact WHERE Fcode = 'F04';
DELETE FROM Fact WHERE Fcode = 'F05';


INSERT INTO Dept VALUES('F01', 'D01', 'คณิตศาสตร์', 'Mathematics');

INSERT INTO Dept VALUES('F01', 'D02', 'สถิติ' , 'Statistics');

INSERT INTO Dept VALUES('F01', 'D03', 'วิทยาการคอมพิวเตอร์', 'Computer Science');

INSERT INTO Dept VALUES('F02', 'D01', 'วิศวกรรมคอมพิวเตอร์', 'Computer Engineer');

INSERT INTO Dept VALUES('F03', 'D01', 'เทคโนโลยีการอาหาร', 'Food Technology');


DELETE FROM Dept WHERE Fcode = 'F01';
DELETE FROM Dept WHERE Fcode = 'F02';
DELETE FROM Dept WHERE Fcode = 'F03';
DELETE FROM Dept WHERE Fcode = 'F04';
DELETE FROM Dept WHERE Fcode = 'F05';


INSERT INTO Student VALUES('623021039-4', 'อัยยะ', 'บุ้งทอง', '123',  'F01', 'D01' );

INSERT INTO Student VALUES('623021039-5', 'อัยยะ', 'บุ้งทอง', '123',  'F01', 'D03' );

INSERT INTO Student VALUES('623021039-6', 'อัยยะ', 'บุ้งทอง', '123',  'F01', 'D03' );

INSERT INTO Student VALUES('623021039-7', 'อัยยะ', 'บุ้งทอง', '123',  'F01', 'D03' );
```

```sql
DELETE FROM Student WHERE StdID = '623021039-4';

DELETE FROM Student WHERE StdID = '623021039-5';

DELETE FROM Student WHERE StdID = '623021039-6';

DELETE FROM Student WHERE StdID = '623021039-7';


#lab 3
--LAB 4 1
CREATE VIEW LAB4_Student
AS
SELECT STDID, STDFNAME, STDLNAME, STDADDRESS
FROM STUDENT
ORDER BY STDID;


--LAB 4 2
CREATE VIEW LAB4_Subject
AS
SELECT SUBJCODE, NAME_THA, CREDIT
FROM SUBJECT
ORDER BY NAME_THA;


--LAB 4 3
CREATE VIEW LAB4_Fact
AS
SELECT STUDENT.STDID, STUDENT.STDFNAME, STUDENT.STDLNAME, FACT.FNAME_THA,
FACT.FNAME_ENG
FROM STUDENT, FACT
WHERE STUDENT.FCODE = FACT.FCODE
ORDER BY FACT.FCODE;
```

```
--LAB 4 4

CREATE VIEW LAB4_Adviser

AS

SELECT STUDENT.STDID, STUDENT.STDFNAME, STUDENT.STDLNAME, TEACHER.TFNAME,
TEACHER.TLNAME

FROM STUDENT, TEACHER

WHERE STUDENT.TCODE = TEACHER.TCODE

ORDER BY TEACHER.TFNAME;




--LAB 4 5

CREATE VIEW LAB4_REG_322212

AS

SELECT SUBJECT.SUBJCODE, SUBJECT.NAME_THA, STUDENT.STDID, STUDENT.STDFNAME,
STUDENT.STDLNAME, REGISTER.GRADE

FROM SUBJECT, STUDENT, REGISTER

WHERE REGISTER.SUBJCODE = '322212' AND

    SUBJECT.SUBJCODE = REGISTER.SUBJCODE AND

    REGISTER.STDID = STUDENT.STDID

ORDER BY STUDENT.STDFNAME;




commit;




#lab 5
```

```sql
--Lab 5 1

CREATE VIEW  LAB5_Credit

AS

SELECT STDID, STDFNAME, STDLNAME, SUM(CREDIT) TotalCredit

FROM(

    SELECT STU.STDID, STU.STDFNAME, STU.STDLNAME, SUB.CREDIT

    FROM STUDENT STU

        INNER JOIN REGISTER REG ON REG.STDID = STU.STDID

        INNER JOIN SUBJECT SUB ON SUB.SUBJCODE = REG.SUBJCODE)

GROUP BY STDID, STDFNAME, STDLNAME

ORDER BY STDID;


--Lab 5 2

CREATE VIEW  LAB5_RegFee

AS

SELECT STDID, STDFNAME, STDLNAME, YEAR, SEMESTER, SUM(CREDIT) TotalCredit, SUM(CREDIT) *
1000 REGFEE

FROM(

    SELECT STU.STDID, STU.STDFNAME, STU.STDLNAME, REG.YEAR, REG.SEMESTER, SUB.CREDIT

    FROM STUDENT STU

        INNER JOIN REGISTER REG ON REG.STDID = STU.STDID

        INNER JOIN SUBJECT SUB ON SUB.SUBJCODE = REG.SUBJCODE)

GROUP BY STDID, STDFNAME, STDLNAME, YEAR, SEMESTER

ORDER BY STDID;


--Lab 5 3

CREATE VIEW  LAB5_GPA

AS

SELECT STDID, STDFNAME, STDLNAME, SUM( CREDIT * GRADE) / SUM(CREDIT) GPA
```

```
FROM(

    SELECT STU.STDID, STU.STDFNAME, STU.STDLNAME, SUB.CREDIT, REG.GRADE

    FROM STUDENT STU

        INNER JOIN REGISTER REG ON REG.STDID = STU.STDID

        INNER JOIN SUBJECT SUB ON SUB.SUBJCODE = REG.SUBJCODE)

GROUP BY STDID, STDFNAME, STDLNAME

ORDER BY GPA;


--LAB 5 4 เพิ่มข้อมูลนักศึกษา

INSERT INTO STUDENT (STDID, STDFNAME, STDLNAME, STDADDRESS, FCODE, DCODE, TCODE)

VALUES('563020197-5', 'กฤษดา',  'โสมายัง', '123 จ.ขอนแก่น', 'F01', 'D03', 'T01');


INSERT INTO STUDENT (STDID, STDFNAME, STDLNAME, STDADDRESS, FCODE, DCODE, TCODE)

VALUES('563020200-2', 'ขวัญข้าว',  'เสียงเลิศ', '11 จ.ขอนแก่น', 'F01', 'D03', NULL);


INSERT INTO STUDENT (STDID, STDFNAME, STDLNAME, STDADDRESS, FCODE, DCODE, TCODE)

VALUES('563020205-2', 'ชนนิกา', 'ปัญจันทร์สิงห์', '15 จ.ขอนแก่น', 'F01', 'D03', NULL);


INSERT INTO STUDENT (STDID, STDFNAME, STDLNAME, STDADDRESS, FCODE, DCODE, TCODE)

VALUES('563020206-0', 'ชนัญชิดา',  'อินทะสร้อย', '16 จ.ขอนแก่น', 'F01', 'D03', NULL);


--LAB 5 5


CREATE VIEW  LAB5_GPA_Outer

AS

SELECT STDID, STDFNAME, STDLNAME, SUM( CREDIT * GRADE) / SUM(CREDIT) GPA

FROM(
```

```sql
    SELECT STU.STDID, STU.STDFNAME, STU.STDLNAME, SUB.CREDIT, REG.GRADE

    FROM STUDENT STU

        LEFT OUTER JOIN REGISTER REG ON REG.STDID = STU.STDID

        LEFT OUTER JOIN SUBJECT SUB ON SUB.SUBJCODE = REG.SUBJCODE)

GROUP BY STDID, STDFNAME, STDLNAME

ORDER BY GPA;


--LAB 5 6

CREATE VIEW  LAB5_Teacher_Outer

AS

SELECT STDID, STDFNAME, STDLNAME, TCODE , TFNAME, TLNAME

FROM(

    SELECT STU.STDID, STU.STDFNAME, STU.STDLNAME, T.TCODE, T.TFNAME, T.TLNAME

    FROM STUDENT STU

        LEFT OUTER JOIN TEACHER T ON T.TCODE = STU.TCODE

    )

ORDER BY TCODE;

CREATE TABLE Book(

    BookID CHAR(3),

    BookName  VARCHAR2(200),

    BookPrice NUMBER(6,2),

    BookAmount NUMBER(3),


    CONSTRAINT BookID_pk PRIMARY KEY(BookID)

);


CREATE TABLE Borrow(

    BorrowID NUMBER(4),

    STDID  CHAR(11),
```

```sql
    BookID  CHAR(3),

    BorrowDate DATE,

    ReturnDate DATE,


  CONSTRAINT borrow_pk PRIMARY KEY(BorrowID),

  CONSTRAINT borrow_fk_std FOREIGN KEY(STDID)

             REFERENCES STUDENT(STDID),


        CONSTRAINT borrow_fk_book FOREIGN KEY(BookID)

             REFERENCES Book(BookID)

);




INSERT INTO Book VALUES('B01', 'คู่มือเรียนการวิเคราะห์ระบบ'          , 250, 10);

INSERT INTO Book VALUES('B02', 'คู่มือใช้งาน PowerPoint'            , 200, 5);

INSERT INTO Book VALUES('B03', 'คู่มือใช้งาน Mac OS X'           , 150, 6);

INSERT INTO Book VALUES('B04', 'Basic iOS App Development'       , 233, 5);

INSERT INTO Book VALUES('B05', 'Professional ASP.NET Programming' , 200, 4);

INSERT INTO Book VALUES('B06', 'เรียน Database อย่างไรให้ไร้ F'          , 99, 5);




INSERT INTO Borrow VALUES(1, '623021039-4'       , 'B01', TO_DATE('24/2/2015','DD/MM/YYYY'),
TO_DATE('25/2/2015','DD/MM/YYYY'));

INSERT INTO Borrow VALUES(2, '623021039-5'       , 'B02', TO_DATE('24/2/2015','DD/MM/YYYY'),
TO_DATE('25/2/2015','DD/MM/YYYY'));

INSERT INTO Borrow VALUES(3, '623021039-6'       , 'B03', TO_DATE('24/2/2015','DD/MM/YYYY'),
TO_DATE('25/2/2015','DD/MM/YYYY'));

INSERT INTO Borrow VALUES(4, '623021039-7'       , 'B04', TO_DATE('24/2/2015','DD/MM/YYYY'),
TO_DATE('25/2/2015','DD/MM/YYYY'));
```

INSERT INTO Borrow VALUES(5, '623021039-7'   , 'B04', TO_DATE('24/2/2015','DD/MM/YYYY'),
TO_DATE('24/2/2015','DD/MM/YYYY'));

INSERT INTO Borrow VALUES(6, '623021039-7'   , 'B04', TO_DATE('24/2/2015','DD/MM/YYYY'),
TO_DATE('24/2/2015','DD/MM/YYYY'));

INSERT INTO Borrow VALUES(7, '623021039-7'   , 'B04', TO_DATE('24/2/2015','DD/MM/YYYY'),
TO_DATE('24/2/2015','DD/MM/YYYY'));

INSERT INTO Borrow VALUES(8, '623021039-7'   , 'B04', TO_DATE('24/2/2015','DD/MM/YYYY'),
TO_DATE('24/2/2015','DD/MM/YYYY'));

INSERT INTO Borrow VALUES(9, '623021039-7'   , 'B04', TO_DATE('24/2/2015','DD/MM/YYYY'),
TO_DATE('24/2/2015','DD/MM/YYYY'));

INSERT INTO Borrow VALUES(10, '623021039-7'   , 'B04', TO_DATE('24/2/2015','DD/MM/YYYY'),
TO_DATE('24/2/2015','DD/MM/YYYY'));

INSERT INTO Borrow VALUES(11, '623021039-7'   , 'B04', TO_DATE('24/2/2015','DD/MM/YYYY'),
TO_DATE('24/2/2015','DD/MM/YYYY'));

INSERT INTO Borrow VALUES(12, '623021039-7'   , 'B04', TO_DATE('24/2/2015','DD/MM/YYYY'),
TO_DATE('24/2/2015','DD/MM/YYYY'));

INSERT INTO Borrow VALUES(13, '623021039-7'   , 'B04', TO_DATE('24/2/2015','DD/MM/YYYY'),
TO_DATE('24/2/2015','DD/MM/YYYY'));

INSERT INTO Borrow VALUES(14, '623021039-7'   , 'B04', TO_DATE('24/2/2015','DD/MM/YYYY'),
TO_DATE('24/2/2015','DD/MM/YYYY'));

CREATE VIEW LAB6_BookPrice

AS

SELECT BOOKID, BOOKNAME, BOOKAMOUNT, BOOKPRICE, BOOKAMOUNT * BOOKPRICE TotalPrice

FROM BOOK;

CREATE VIEW LAB6_BorrowDetail

AS

SELECT STDID, STDFNAME, STDLNAME, BOOKNAME, BORROWDATE, RETURNDATE

FROM(

```sql
    SELECT STU.STDID, STU.STDFNAME, STU.STDLNAME, B.BOOKNAME, BOR.BORROWDATE,
BOR.RETURNDATE
    FROM BORROW BOR
        INNER JOIN STUDENT STU ON BOR.STDID = STU.STDID
        INNER JOIN BOOK B on B.BOOKID = BOR.BOOKID
        )
ORDER BY STDID,BORROWDATE ;




CREATE VIEW  LAB6_StudentBorrow
AS
SELECT STDID, STDFNAME, STDLNAME, COUNT(*) Amount
FROM(
    SELECT STU.STDID, STU.STDFNAME, STU.STDLNAME
    FROM BORROW BOR
        INNER JOIN STUDENT STU ON BOR.STDID = STU.STDID
        )
GROUP BY STDID, STDFNAME, STDLNAME
ORDER BY STDFNAME ;




CREATE VIEW  LAB6_BookBorrow AS
SELECT BOOKID, BOOKNAME, COUNT(*) - 1 Amount
FROM(
    SELECT BOOKID, BOOKNAME
    FROM BOOK
    UNION ALL
    SELECT BORROW.BOOKID, BOOK.BOOKNAME
```

```
    FROM BORROW

        INNER JOIN BOOK  on BOOK.BOOKID = BORROW.BOOKID

    )

GROUP BY BOOKID, BOOKNAME

ORDER BY BOOKID;
```