

LAB09

```
--ALTER TABLE student ADD Tcode CHAR(3);
```

```
--
```

```
--UPDATE student
```

```
--SET tcode = 0
```

```
--WHERE tcode IS NULL;
```

```
--
```

```
--ALTER TABLE student
```

```
--MODIFY tcode CHAR(3) NOT NULL;
```

```
--
```

```
--UPDATE student
```

```
--SET tcode='T05'
```

```
--WHERE stdid='633020291-0';
```

```
--
```

```
--UPDATE student
```

```
--SET tcode='T06'
```

```
--WHERE stdid='633020009-0';
```

```
--
```

```
--UPDATE student
```

```
--SET tcode='T03'
```

```
--WHERE stdid='633020003-4';
```

```
--
```

```
--UPDATE student
```

```
--SET tcode='T07'
```

```
--WHERE stdid='633020005-6';
```

```
--
```

```
--UPDATE student
```

```

--SET tcode='T02'

--WHERE stdid='633020007-8';

--

--ALTER TABLE student ADD FOREIGN KEY (tcode) REFERENCES teacher(tcode);


--A

--CREATE VIEW Lab09_StdCredit (STDID,STDFNAME,STDNAME,TotalCredit) AS
--SELECT student.stdid,student.stdfname,student.stdlname,(SELECT SUM(Subject.credit) FROM subject)
--FROM student
--JOIN register ON (student.stdid = register.stdid)
--JOIN subject ON (register.subjcode = subject.subjcode)
--GROUP BY student.stdid,student.stdfname,student.stdlname;


--B

--ALTER TABLE subject
--MODIFY name_tha VARCHAR2(100);
--INSERT INTO subject VALUES ('342436','เทคโนโลยีเว็บแบบสื่อความหมาย','Semantic Web Technology','3')

--

--INSERT INTO subject VALUES ('342236','การเขียนโปรแกรมประยุกต์บนเว็บ','Web Application
Programming','3')


--C

--SELECT * FROM subject
--ORDER BY subjcode;


--D

--create or replace view lab09_Subject_Enroll as

```

```

--select subject.subjcode,
--subject.name_eng,
--count(register.stdid) AS amount
--from register full outer join subject on register.subjcode = subject.subjcode
--GROUP BY subject.subjcode,subject.name_eng
--ORDER BY subjcode;

--
--select * from lab09_Subject_Enroll;

--5

--select * from lab09_Subject_Enroll where amount = (select min(amount) from lab09_Subject_Enroll);

```

```

CREATE VIEW Lab09_StdCredit (STDID,STDFNAME,STDNAME,TotalCredit) AS
SELECT student.stdid,student.stdfname,student.stdlname,(SELECT SUM(Subject.credit) FROM subject)
FROM student
JOIN register ON (student.stdid = register.stdid)
JOIN subject ON (register.subjcode = subject.subjcode)
GROUP BY student.stdid,student.stdfname,student.stdlname;

```

```
ALTER TABLE subject
MODIFY name_tha VARCHAR2(100);
```

```
INSERT INTO subject VALUES ('342236','การเขียนโปรแกรมประยุกต์บนเว็บ','Web Application Programming','3')
```

```
INSERT INTO subject VALUES ('342436','เทคโนโลยีเว็บแบบสื่อความหมาย','Semantic Web Technology','3')
```