```
create table course
(
    course_code varchar(7),
    course_name varchar(10)
)

insert into course values ('CAP200','DBMS')

insert into course values ('CAP280','DBMS lab')
insert into course values ('CAP189','Compression')
insert into course values ('CAP189','DataComp')
```

COURSE_CODE	COURSE_NAME
CAP200	DBMS
CAP280	DBMS lab
CAP189	DataComp

```
create table details
(
  course_code varchar(7),
  semester varchar(10)
)
insert into details values ('CAP200','3rd')
insert into details values ('CAP280','2nd')
```

insert into details values ('CAP119','1st')

COURSE_CODE	SEMESTER
CAP119	1st
CAP200	3rd
CAP280	2nd

Cartesian Join

select * from course,details

COURSE_CODE	COURSE_NAME	COURSE_CODE	SEMESTER
CAP200	DBMS	CAP119	1st
CAP280	DBMS lab	CAP119	1st
CAP189	DataComp	CAP119	1st
CAP200	DBMS	CAP200	3rd
CAP280	DBMS lab	CAP200	3rd
CAP189	DataComp	CAP200	3rd
CAP200	DBMS	CAP280	2nd
CAP280	DBMS lab	CAP280	2nd
CAP189	DataComp	CAP280	2nd

Self Join

select * from course a, course b

COURSE_CODE	COURSE_NAME	COURSE_CODE	COURSE_NAME
CAP200	DBMS	CAP200	DBMS
CAP200	DBMS	CAP280	DBMS lab
CAP200	DBMS	CAP189	DataComp
CAP280	DBMS lab	CAP200	DBMS
CAP280	DBMS lab	CAP280	DBMS lab
CAP280	DBMS lab	CAP189	DataComp
CAP189	DataComp	CAP200	DBMS
CAP189	DataComp	CAP280	DBMS lab
CAP189	DataComp	CAP189	DataComp

Natural Join

select * from course natural join details

COURSE_CODE	COURSE_NAME	SEMESTER
CAP200	DBMS	3rd
CAP280	DBMS lab	2nd

Inner Join

select * from course c inner join details d on c.course_code=d.course_code

COURSE_CODE	COURSE_NAME	COURSE_CODE	SEMESTER
CAP200	DBMS	CAP200	3rd
CAP280	DBMS lab	CAP280	2nd

Equi Join

select * from course c, details d where c.course_code=d.course_code

COURSE_CODE	COURSE_NAME	COURSE_CODE	SEMESTER
CAP200	DBMS	CAP200	3rd
CAP280	DBMS lab	CAP280	2nd

Left outer Join

select * from course c left outer join details d on c.course_code=d.course_code

COURSE_CODE	COURSE_NAME	COURSE_CODE	SEMESTER
CAP200	DBMS	CAP200	3rd
CAP280	DBMS lab	CAP280	2nd
CAP189	DataComp	-	-

Right outer join

select * from course c right outer join details d on c.course_code=d.course_code

COURSE_CODE	COURSE_NAME	COURSE_CODE	SEMESTER
CAP200	DBMS	CAP200	3rd
CAP280	DBMS lab	CAP280	2nd
-	-	CAP119	1st

Full outer join

select * from course c full outer join details d on c.course_code=d.course_code

COURSE_CODE	COURSE_NAME	COURSE_CODE	SEMESTER
CAP200	DBMS	CAP200	3rd
CAP280	DBMS lab	CAP280	2nd
CAP189	DataComp	-	-
-	-	CAP119	1st

View

create view v as (select * from course natural join details)

select * from v

COURSE_CODE	COURSE_NAME	SEMESTER
CAP200	DBMS	3rd
CAP280	DBMS lab	2nd

create view v1 as (select c.course_code,course_name,semester from course c full outer join details d on c.course_code=d.course_code)

select * from v1

COURSE_CODE	COURSE_NAME	SEMESTER
CAP200	DBMS	3rd
CAP280	DBMS lab	2nd
CAP189	DataComp	-
-	-	1st