1. Write a SQL query to map all the Employee Names with the remaining names.

CREATE TABLE [Emp\_table]

(

Emp\_ID INT

,Emp\_Name VARCHAR(10)

,Age INT

)

GO

INSERT INTO [Emp\_table] VALUES

(1,'A',25),

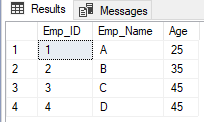
(2,'B',35),

(3,'C',45),

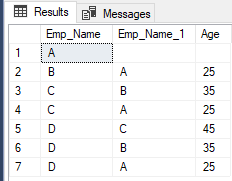
(4,'D',45)

GO

**I/P:**



**Expected O/P:**



ANS :

select

z.emp\_name,x.emp\_1,x.age

from

(select \* from emp\_table ) z

left join

(select b.emp\_name emp\_name,a.emp\_name as emp\_1, a.age age from Emp\_table a

cross join [Emp\_table] b

where a.emp\_name<b.emp\_name

) x

on z.emp\_name = x.emp\_name

order by

z.emp\_name,

x.age desc

2. The view consists of two columns (score1 and score2 ). Can you identify the reciprocal pair of scores?

create view V\_1 (Score1,Score2)

as

select 20,20

union all

select 50,25

union all

select 20, 20

union all

select 60,30

union all

select 70,90

union all

select 80,130

union all

select 90,70

union all

select 100,50

UNION ALL

select 110,55

union all

select 120,60

UNION ALL

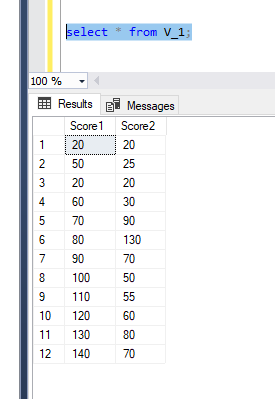
select 130,80

union all

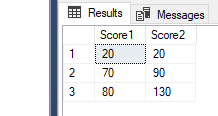
select 140,70

;

**I/P:**



**Expected O/P:**



ANS:

WITH CTE AS (

SELECT score1 as X1,score2 as Y1,

row\_number() OVER(PARTITION BY (score1\*score2),(score1+score2) ORDER BY score1) as ranking

FROM v\_1 )

SELECT Y1 as X,X1 as Y

FROM CTE

WHERE (ranking > 1)

ORDER BY X;

select distinct score1, score2 from v\_1

where score2 >= score1

3. Refer the below input data and the expected output to generate the report on range basis on the common combination of dispatch\_flag and keep\_flag.

CREATE TABLE tbl\_flags

(

ID INT

,Creation\_Date DATE

,dispatch\_flag BIT

,keep\_flag BIT

);

INSERT INTO tbl\_flags

VALUES

(1,'20160808',0,0)

,(2,'20161001',0,0)

,(3,'20161126',1,0)

,(4,'20161226',1,0)

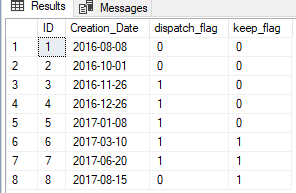
,(5,'20170108',1,0)

,(6,'20170310',1,1)

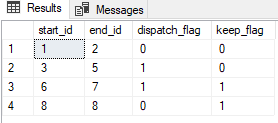
,(7,'20170620',1,1)

,(8,'20170815',0,1);

**I/P:**



**Expected O/P:**



ANS:

select

min(id) start\_id, max(id) end\_id ,dispatch\_flag,keep\_flag

from tbl\_flags

group by dispatch\_flag,keep\_flag

order by start\_id