Q1. Write an SQL query for recommendation engine.

A recommendation engine recommend products to customers based on their purchase history.

Raj and Abdul has purchased Mobile so recommendation engine will recommend Charger to Raj and Speaker to Abdul.

create table input(custname varchar(50),product varchar(50));

insert into input values('Raj','Mobile');

insert into input values('Raj','Speaker');

insert into input values('Abdul','Mobile');

insert into input values('Abdul','Charger');

insert into input values('Abraham','Speaker');

insert into input values('Abraham','laptop');

Q2. Write an SQL query to fetch the data as per the below requirement.

Create table stud(id number,name varchar2(10));

insert into stud values(1,'A');

insert into stud values(2,'B');

insert into stud values(3,'C');

Create table score(id number,marks varchar2(10));

insert into score values(1,40);

insert into score values(2,60);

insert into score values(4,50);

create table dept(studid int,deptname varchar(50));

insert into dept values(1,'EC');

insert into dept values(2,'CS');

insert into dept values(5,'ME');

insert into dept values(3,'CV');

a)Name, marks and deptname for those students whose matching ids are present in all the three tables stud,score and dept.

b)Name,marks and deptname for all the ids which are present in stud and score table only and matching ids in dept table.

c)Name,marks and deptname for all the ids which are present in stud table or score table or dept name.

Execute and explain the output of the below queries.

d)select a.id,a.name,b.id,b.marks

from stud a join score b

on a.id = b.id

e)select a.id,a.name,b.id,b.marks

from stud a join score b

on a.id = b.id and a.name='A'

f)select a.id,a.name,b.id,b.marks

from stud a join score b

on a.id = b.id

where a.name='A'

g)select a.id,a.name,b.id,b.marks

from stud a left join score b

on a.id = b.id

h)select a.id,a.name,b.id,b.marks

from stud a left join score b

on a.id = b.id and a.name = 'A'

i)select a.id,a.name,b.id,b.marks

from stud a left join score b

on a.id = b.id

where a.name='A'

j)select a.id,a.name,b.id,b.marks

from stud a left join score b

on a.id = b.id and b.marks=40

k)select a.id,a.name,b.id,b.marks

from stud a left join score b

on a.id = b.id

where b.marks='40'