1.1

(Select E.ename, E.age

From Emp E, Works W, Dept D

Where E.eid = W.eid and W.did = D.did and D.did = 101)

INTERSECT

(Select E.ename, E.age

From Emp E, Works W, Dept D

Where E.eid = W.eid and W.did = D.did and D.did = 102);

Assume Hardware did = 101 and Software did = 102

1.2

*Pay attention when it says ONLY depts greater than 1,000,000*

Select Distinct(E.ename)

From Emp E, Dept D

Where E.eid = D.managerID and D.managerID and not in

(Select D2.managerID

From Dept D2

Where D2.budget < 100000);

*Pay attention for when it asks for MANAGERS, use managerID*

2.1

Select D.managerID

From Dept D

Group By D.managerID

Having sum(D.budget) > 5000000;

2.2

Select D.managerID

From Dept D

Where D.managerID

Group By D.managerID

Having sum(D.budget >= ALL (select sum(D2.budget)

From dept D2

Group by D2.managerID);

3.1

Select D.did, max(E.salary)

From Emp E, Works W, Dept D

Where E.eid = W.eid and W.did = D.did

Group by D.did;

3.2

select min(E.age), W.did

from emp E, works W

where E.eid = W.eid and E.age < 60 and W.did in (select W1.did as wDID

from works W1

group by W1.did

having count(W1.eid) > (select avg(totEmp)

from (select W2.did, count(W2.eid) as totEmp

from works W2

group by W2.did) as temp))

4.1

Gavg(E.salary)(pE(Emp))

4.2

Temp <- G AVG(budget)(dept)

Pi D.did (o- D.budget > Temp(p D(Dept))

Select e.ename, e.age

From emp e, works w, dept d

Where e.eid = w.eid and w.did = d.did and d.name = “hardware”

Intersect

Select e.ename, e.age

From emp e, works w, dept d

Where e.eid = w.eid and w.did = d.did and d.name = “software”

Select d.managerid

From dept d

Where d.managerid not in (select d2.managerid

From dept d2

Where d2.budget < 100000);

Select d.managerid

From dept d

Group by d.managerid

Having sum(d.budget > 5000000);

Select d.managerid, (d.budget)

From dept d

Group by d.managerid

Having sum(d.budget >= (select sum(d2.budget)

From dept d2

Group by d2.managerid);

Select d.did, max(d.salary)

From dept d

Group by d.did;

G avg(e.salary)(p e(emp))

Temp <- G avg(d.budget)(pD(dept))

Pi d.did(o- d.budget > temp)(pd(dept))