CS450_summer

Date: 07/13/2017

Assignment 3: Relationla Algebra

Queries

1.

project (select ((Items rename (Iid as Ino, Iname as N, Desc as Description, Quant as Q, Price as P, Dcode as D)) join (project (select(Available join (Available rename (Sno as S, Iid as I, Cost as C))) where (Sno<S) and (Cost=C) and (Iid=I)) over Iid)) where Ino = Iid) over Ino, Description

2.

project (select ((Items rename (Iid as Ino, Iname as N, Desc as Description, Quant as IQuant, Price as P, Dcode as D)) join (select (Purchase join (Procurement rename (TransNo as T, Iid as I, Sid as S, Quantity as Q, Date as D))) where (Iid = I) and (Quantity > Q))) where Ino = I) over Ino, Description

3.

(project (select Items where Quant > 20) over Iid, Desc) difference (project(Items join (project(select Purchase where Date > 170000)over Iid))over Iid, Desc)

4.

project (select(Items rename (Iid as Ino, Iname as N, Desc as Description, Quant as IQuant, Price as P, Dcode as D) join Procurement) where (Ino = Iid) and (IQuant > 20) and (Date > 160000) and (Date < 170000)) over Ino, Description

5.

project (select (Customers join ((project (select Creditcard where Exp < 170714) over Owner) difference (project (select Creditcard where Exp > 170714) over Owner))) where Cid = Owner) over Cid, Cname

6.

project(Customers join (divide (project (select (Customers join (Creditcard join (Purchase join (project (select Available where Sno = "S001") over Iid)))) where Cid = Owner) over Iid, Cid) by (project (select Available where Sno = "S001") over Iid)))over Cid, Cname

7.

project (select (Customers join (Creditcard join (select (Purchase join Items) where (Date > 160000) and (Date < 170000) and (Price > 100)))) where Cid = Owner) over Cid, Cname

8.

project (select ((project Employees over Eid, Ename, WorkDept) join (project Departments over Dcode, Manager)) where (Manager = Eid) and (Dcode <> WorkDept)) over Eid, Ename, WorkDept, Dcode

9.

project (select(Employees join (Employees rename Eid as E1, Ename as N1, skills as S1, WorkDept as W1)) where (Eid <> E1) and (WorkDept = W1) and (skills = S1)) over Eid, Ename, E1, N1

10.

(project (select(Employees join (Employees rename Eid as E1, Ename as N1, skills as S1, WorkDept as W1)) where(Eid <> E1)and (WorkDept = W1) and (skills = S1)) over Eid, Ename, E1, N1) difference (project (select(Employees join (Employees rename Eid as E1, Ename as N1, skills as S1, WorkDept as W1)) where(Eid = E1)and (WorkDept = W1) and (skills <> S1)) over Eid, Ename, E1, N1)