Pelational Algebra <> 502 27 SELECT <> projection TT 15 FROM <> input tubles 15 WHE Ri <> Selection of join predicates 15 DISTINCT <> Duplicate elimination of 15 OFDER BY <> Sorting to 15 Choup BY <> Crowby aggregations y 15 UNIONI, INTERSECT, EXCEPT <> Set op's U, N, -15 JOIN <> Join

Pavid Dominguez

1) 2002 is the only luptop satisfying this, and maker is E

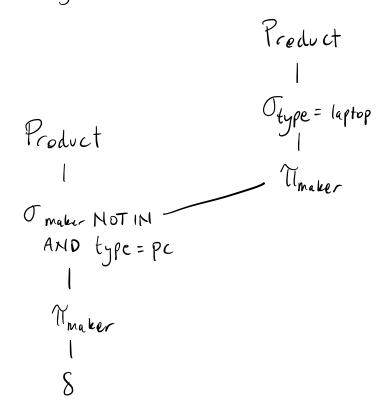
Product P Price < 2000

AND Screen > 16

There is a second of the second

## 2.) Makers making PC's: {A,B,C,D,Z} making Captops: {E,H,B,F,G}

Makers making PC's, but not laptops: {C, D3



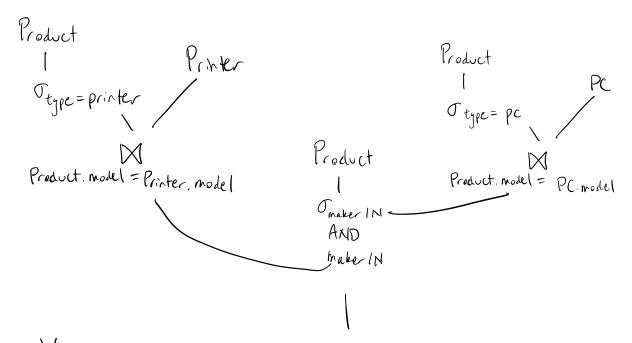
3.) For every maker that Sells both PCs and Printers, find the combination of PC and Printer that has maximum price

makers that sell PCs: { ABC, DE} makers that sell Printers: { H, D, E}

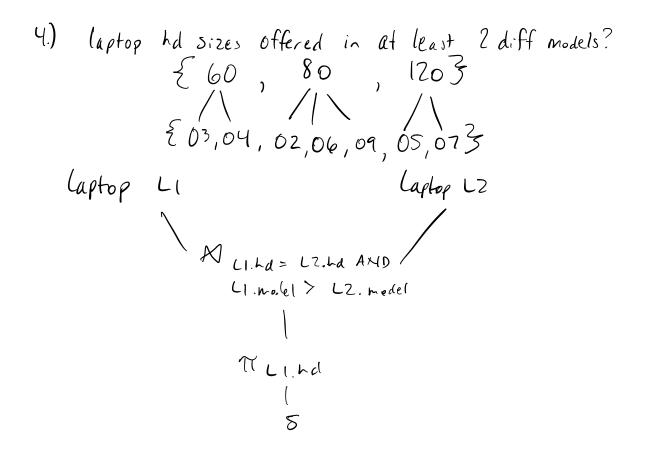
Maximum of maker D: max(PC) + max (Printer)

## 770 + 120 = 890

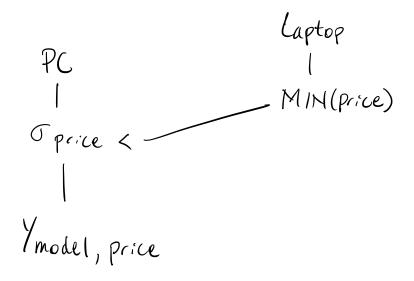
Maximum of maker E: 959 + 899 = 1858 Ans: D, 1008, 3004, 890 E, 1011, 3003, 1858



Ymaker, PC.model, Printer.model, MAX (PC.price + Printer.price)



5.) What PCs are less expensive than all Laptops? Print the model & the price



(c.) Makers making laptops: { (E) A, B, F, G, 3

makers making at least 2 printer models: { (E) D, H}

Product

Otype = 'laptop'

Timaker

Ymaker, COUNT(DISTINICT models) AS models

Trodels > = 2