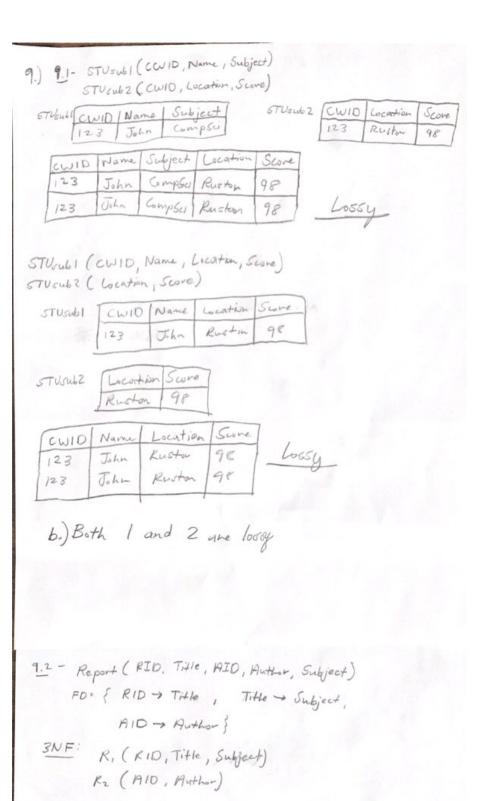
6.) 6.1 - SELECT SI. sid, 52. sid From Supplier of, Supplier PART p. Catalog cl, Catalog c2 WHERE 51.5id = clisid & 52.5id = C2.5id & p. pid = cl.pid 2 p. pid = c2 pid & d. price > cz price; 6.2 - SELET 5. sid FROM Supplier 5, Part p , Catalog c WHERE 5. sid = C. sid & p. pid = e. pid & (p. colon = 'red' OR s.address = 'Rustun City'); 8.) 8.1- STUDENT (SSN, SName, Saddress, Hocade, Hename, Hocity, GPA, FD . I HScode -> (Haname, Hacity). GPA - Priority SSN - (SName , Saddness , GPA) ! BCNF: HCcode - Honome, Hocity Hscode +: Hscode, Hs Name, Hscity GPA -> Priority GPA+: GPA, Priority SSN -> SName, Saddress, GPA SSN+: SSN, Snane, Saddress, GPA, Priority (SSN , Swame , Stiddress , Hscode , HSName , HScity , GPA , Priority) HScode -> HSName, HScity STUDENT (HE code, HEName, HScity) - STUDENT (HS code, SSN, SName, Saddness, GPA, Privity) STUDENT (GPA, Privity) STUDENT (GPA, SON, SNAME, Saddress) STUDENT (SSN, SName, Saddress) * STUDENT (SEN, GPA, Priority)

8.2 - Cascade / Conjuctive Selects: reduce relation size

Expanding Views: selects may move up

Joins: can more select below join

Inserting Projects: reduce size of topples



RID→ Title

RID+: RID, Title, Subject

AID+: AID, Author

AID+: AID, Author

AID+: AID, Author

AITHER: Title, Subject

RID -> Title, Subject

10.) 10.1- Parse tree & rewrite rules

SELECT Starname FROM German Movier

NAT JOIN Starsin WHERE Director = "ABCDEF";

MOVIE (Title, Year, Director, Language)

Starsin (Title, Year, Star Name, Language)

View German Movies AS SELECT * FROM Movie

WHERE language = "German";

To Starname

M S. Language = M. language

OM. Director = 'ABCDEF" German Mevics

Movie

10.2 - R(A,B,C,D,E,F,G) $FD: \{A \rightarrow B, A \rightarrow C, AE \rightarrow D, AEF \rightarrow G\}$ BUNF: $A \rightarrow B$ $A^{+}: ABCD$ $A^{+}: ACB$ $A \in A^{-}: AEBCD$ $AEF^{+}: AEFBCDG$

R(ABCOEFG)

LARI(AB)

RI(AB)

RI(AB)

RI(AC)

RI(AC)

RI(AC)

RI(AC)

RI(ACD)

RI(AED)

RI(AEFG)

Set Difference: For each row of S,

delete from R if it exists

Output remains rows of S