QGI) From Europearss, Ports p, Catalog C When Q6.2) Select sisid From Suppliers s , Partsp Were Exists ( Select \* From Catalog c (where p. color = "red" or s. address = Ruston) and (S. sid = C. sid) and (P. pid = E. pid)) Q8.1) Studen+ (SSN), S Nave, Saddress, (Hscode), Hsnave Hscity, GPA, Priority) HS code = HS code, Hs name, Hs city < partial GPA += GPA, priority SSN += SSN, Snane, Saddress, GPA, priority epartial

> SSN, Hscode = ISSN, Hscode, Hsnare, Hscity, Sname Saddress, GPA, privily

> > 1

8.1 continued)

Using GPA = priority

| R, (GPA, priority) |
| R2 (GPA, SSN, SName, Saddress, Hsome, Hscity)

Using SSN = SName, Saddress GPA

| SR21 (SSN, SNone, Saddress, GPA) |
| SR21 (SSN, Hsode, Hsname, Hsaty, priority)

Using Hscode > Hsname, Hscity

| R221 (Hscode, Hsname, Hscity)
| R222 (Hscode, SSN, SName, Saddress, GPA, priority)

8.2) Syntax decks - I syntax correct for opperators

Aftribute checks - Do attribute names match

existing attributes,

Entity checks - Do all litted relations exist

Type checks - Are all attribute types correct

Q9,1) The answer is a) I is loss, but 2 is lossless.

1 is lossly because STU sub 1 A STU sub 2 A STU sub 1.

2 is lossless because STU sub 1 A STU sub 2 A STU sub 2.

Molds true.

A9.2)
Report (RID), Title (AID), Author, Subject)

RID, AID+: RID, AID, Title, Subject, Author
Title > Subject +.d.,
RID > Title P.d.
AID > Author P.d.

Report (RID, Title, AID, Author, Subject)

RR.

RR.

1

10.1)

German Movies Starsin

O Director = (ABCDEF)

10.2)

Ran out of Time

(210.7) Read R into memory and make accessible through in-memory index structure.

Search if each tuple of S exists in R.

If exists, delete it from R.

Ryum remaining tuples of R.