B The Relational Algebra - Core Question: Consider the following relational data have schema consisting of flufour schemas: Parsenger (PId) prame, Agenden Gency aid aname acity Rital flight (fid fate time, sne dest) booking (pid aid fid, fate) 1. Get complete details of all flighty to New Della Gest="Now Dolling 2) Get the details about all flights from Chemai to New-Delhi.

e) Findonly the flight numbers for panenger with pld 123 for flights to Chemas before @/11/2020. opide (booking) XI (flights)]

1 123 A same ochennain of flate time, suc, dust

Pit, aid fid [booking) N (flights)] = 123 ndest change in f-date = cochi 12026 who have booked at least one Hight. Thens M parengen) pid aid fit of lax prime passen page E) Find the pursenger names for these who donot have any booking sin any flights.

(Pei (parsenger) - M(Booking) A-B.

1 tems present

Trame L & parsengen

f) Find the agency names for agencies that located in the same cityen passenger with pursengen id 123.

Hene we penform equijoin.

n (agency × acity (6p. 12=123, Panenga)

Scheduled on both side dates 01 /12/200 and 02/12/2020 at 16:00 hours.

(6 date= 61/12/2020 1 flight))

Home=
"16: ochours'

(6 flate= 02/12/2020 fime= (Hight)

(16:000
hows")

What the details of flights that schedule don either of the dates 61/12/2020 on 62/12/2026 on both at 16:00 hours.

6 date = 0 2/12/2020" (flight)

1 date = "0 2/12/2020"

1 time = 16:00 hours"

Find the agency mames for agencies who don't have any booking old set for Panengensuiff id 123. Genger (Magency) 8-1 (Spiders) DFind the details of all male panengers who are associated with jet agency. Granningen & booking Gazar (ronsengen) of (booking) of (agency)

SQL and Relational Algebra Short evencises solved. 1) Consider relation R. (A, B, C) and Re (B,D) where number of types in RI, I(RI)=25 and number of Exand Relational Atgetors tuples in R2, (7/R2) = 40,) and Bis the key for RI. How many tuples RINR2 Ans: 90. Bistheforeign key In Rz. The pormissible Values for attribute Bin R2 and Ke values that are stored inattribute B of Ri. The value of B Can be districted. Heme result 15 ull the typles of som R ?

In relations & (a, b) and S(C,1): soleta 2 from B,5 Whene R.a > 10 and R.b=5.0 Answer Ray (RM S) 3) write the following relational Algebra Aprenion in SQL for relations Students (neg no name, age sund Stutour Regd. (exoff regno, name, to un-amt). They no, name (6 age) 20 (students) Magno, name (stu: 404n.
Real) (select negro, name from sulents
(where age 120) Except (select regro, name,

from shu-tour-negd)

2) Write the following

Ton relation Student (neg name dept)
suppose dept contene one of lite cse
ece mech civil J. If number of types
innulation student is 2000 then what is
thesire estimate of the greny Edept Physics (Student)

Ams physics is not one of dept : so
Ams will be o.

5) How exactly the relational algebra
exprension RIXOS cambe expressed
custing only the basic relationstaral
culgebra operators,

Ams 60 (RXS).

* Any reality show has at least hu Draw an ER diagram for the given Scenario: Suppose that you are designing a seekmu tore cord information about relating Shows data base needs togecand the following information busicinfo and pandice name have the mane. - For each producer, the company name, company country. A showis - froduced by exactly one froducer. And oreproduces produces exactly one show - For each teleursion, its name, stantyean head office. - H-felewisson may broadcast multiple shows. Each show Is broad casted by exactly one teleccision. For each ear user his/hen username bassus dardage. A user may nate multiple shows and ashow may be golded by multiple users. Each nating a score of o tolo.

