Homework 5:

3.12:

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a. insert into course

broken com a troop of values ('cs-ool', 'Weekly Seminar', 'Comp. Sci.', 0)

b. insert into section

Values ('CS-001', 1, 'Autumn', 2009, null, null, null)

c. insert into takes

Select ID, 'CS-001', 1, 'Autumn', 2009, null

From Student nitration and

where dept_name = 'Comp. Sci.'

d. delete from takes

1.1 × pd. = (112 = where course_id = "CS-0015 and sec_id = 1 and semester = ! Autumn' and year = 2009 and ID in / Select ID

From Student

where name = 'chavez')

comment of the state of

e. delete from takes metaline in the same of the same

where course-id = 'CS-001'

delete from section

where course - id = 'cs-ool'

delete from course

Where course - id = 'cs - ool'

If we delete course before delete tuples in section, schema, the delete action will fall. Because if we do not delete the tuples in takes and section schemas that course has foreign key references, first, takes and section cannot refer back to course, which loods to the fall delete action. N STORY TO

:5 HOWEMON Devision of the 1 th of (o From course primes plasm, 10 21 321) ני וֹתַבַּיר וְתְּיִם בַּבְּיר וֹתְיִם בַּבְּירֹמִים (Jun . Hen poor 'nmun ! . 1 , 160-25' 1 454 10) STREET TOP THEY ... set salary = Salary x 1.1 where company_name = 'First Bank Corporation' in the same of the where company_name = First Bank Corporation and

THE 'S BOXE STONE c. delete from works

f. delete from takes

a. update works

b. update works

set salary = salary × 1.1

where course_id in (Sdect Course_id

where company_name = 'Small Bank Corporation'

8.75:

3.17:

A relation - could be: 0 biyi ai 61 b, y2 al

this r relation satisfies $\alpha \rightarrow \beta$ & $\gamma \rightarrow \beta$, but not $\alpha \rightarrow \gamma$ because of can determine . B and I can determine B (B is the subset of Y), notes and the but & cannot determine &

where title like '%database%')

employee - name in (select manager name -

from manages)

8.27:

To compute Bt, we first start with B

 $: B \to D$, so result now becomes (B, D)

Because there is no other functional depedencies can satisfy $\alpha \subseteq \text{result relation}$, the final result of B⁺ is (B, D)