Exercise 4.57.

Define a rule that says that person 1 can replace person 2 if either person 1 does the same job as person 2 or someone who does person 1's job can also do person 2's job, and if person 1 and person 2 are not the same person. Using your rule, give queries that find the following:

- a. all people who can replace Cy D. Fect;
- b. all people who can replace someone who is being paid more than they are, together with the two salaries.

Answer.

The replace rule below shows expresses the condition for replacing one stuff by another:

a. Using replace, we can find out all people who can replace Cy D. Fect with a simple query:

```
;;; Query input:
(replace ?person (Fect Cy D))
;;; Query results:
(replace (hacker alyssa p) (fect cy d))
(replace (bitdiddle ben) (fect cy d))
```

b. To find out all people who are qualified to someone else's job while bear lower salaries, we could consult the data base with the following query:

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