Which is a weak entity?
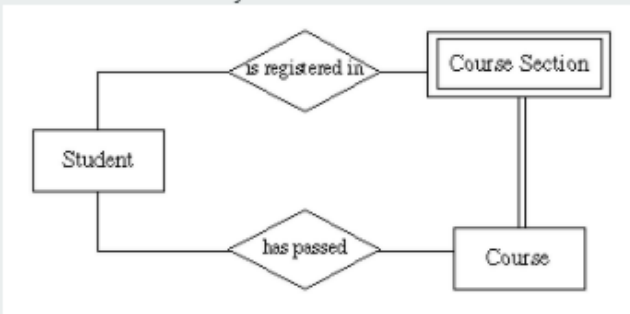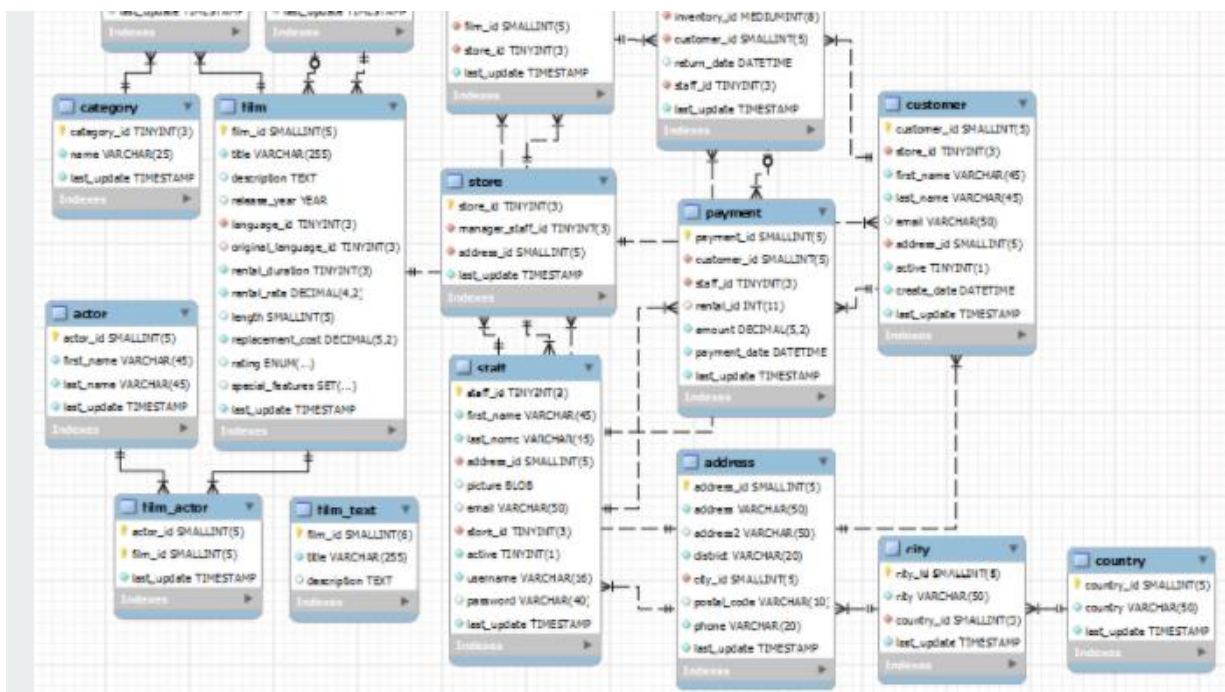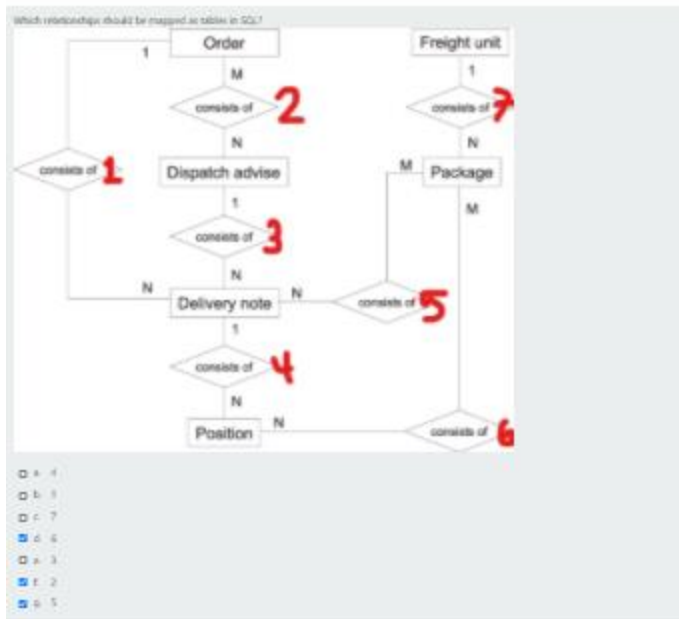

Image Link: http://pages.cpsc.ucalgary.ca/~eberly/Courses/CPSC333/Lectures/ERD/Figures/erd3.gif

- ● a. Course Section
- ○ b. Course
- ○ c. Student
- ○ d. is registerd in
- ○ e. has passed

classroom(building, room number, capacity)

department(dept name, building, budget)

course(course id, title, dept name, credits)

instructor(ID, name, dept name, salary)

section(course id, sec id, semester, year, building, room number, time slot id)

teaches(ID, course id, sec id, semester, year)

student(ID, name, dept name, tot cred)

takes(ID, course id, sec id, semester, year, grade)

advisor(s ID, i ID)

time slot(time slot id, day, start time, end time)

prereq(course id, prereq id)

- ☑ a. advisor
- ☐ b. section
- ☑ c. prereq
- ☐ d. department
- ☐ e. student
- ☐ f. course
- ☑ g. takes
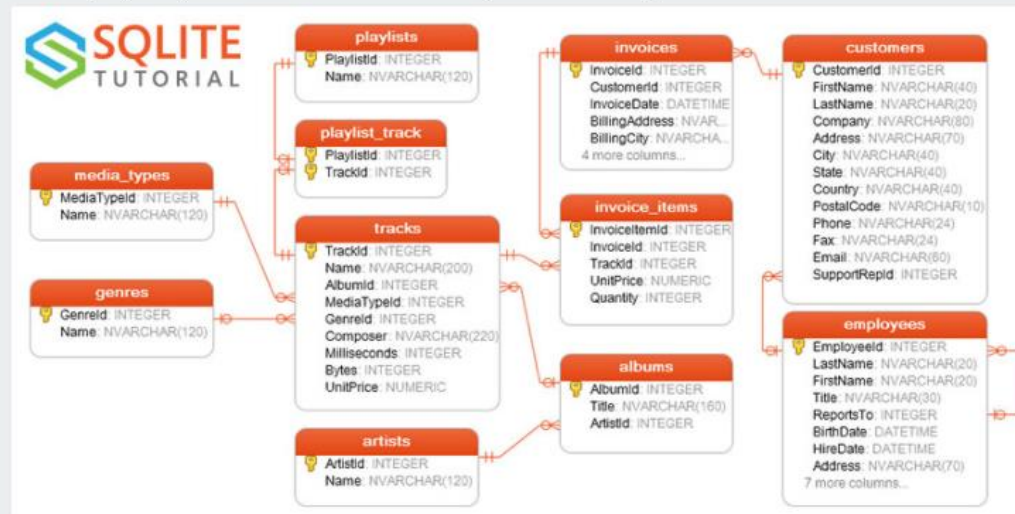- ☑ h. teaches
- ☐ i. instructor

Which relationships should be mapped as tables in SQL?

- ☐ a. 4
- ☐ b. 3
- ☐ c. 7
- ☑ d. 6
- ☐ e. 3
- ☑ f. 2
- ☑ g. 5

Here is a link for the image: https://raw.githubusercontent.com/LintangWisesa/Sakila_MySQL_Example/master/SampleSakila.png
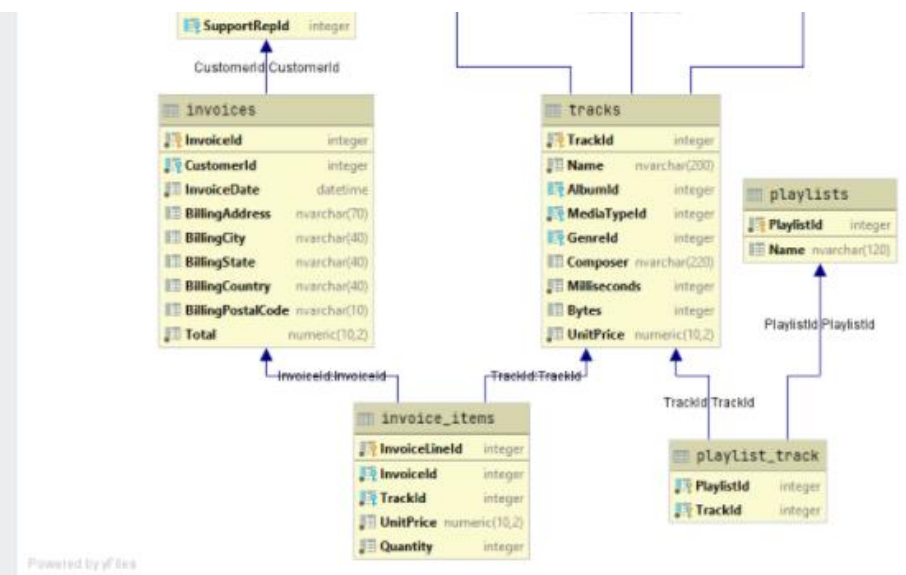
Answer: (penalty regime: 0 %)

```
1  SELECT title
2  FROM (film inner join film_actor using(film_id)) inner join actor using(actor_id)
3  WHERE first_name="AL"
```

Create a query that gets the first and last name of the highest ranked manager.

```sql
1  SELECT FirstName, LastName
2  FROM employees
3  WHERE ReportsTo is NULL
```

```sql
1  SELECT InvoiceId
2  FROM invoices
3  WHERE Total > (SELECT Total
4  FROM invoices
5  WHERE InvoiceId=12)
6
```