

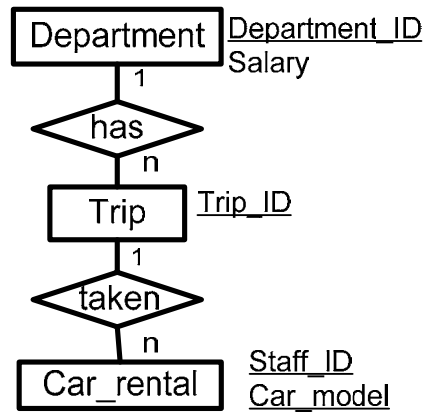
Student Number:

Student Name:

Date:

CS5483 Tutorial Question 1

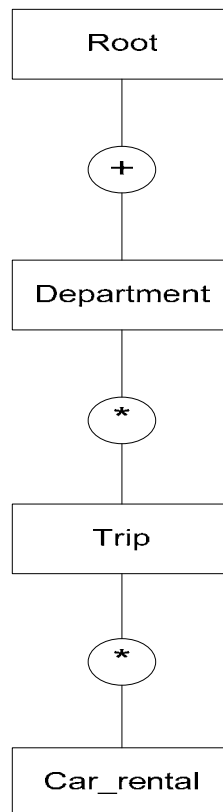
Map the following Extended Entity Relationship Model into an DTD Graph and a Document Type Definition (DTD).



An ER model for car rental

Model answer

Mapped ER Model into DTD Graph with Department as Root



Mapped Document Type Definition

```
<!ELEMENT ROOT (DEPARTMENT+)*>
<!ELEMENT DEPARTMENT (TRIP*)>
<!ELEMENT TRIP (CAR_RENTAL*)>
<!ELEMENT CAR_RENTAL EMPTY>
<ATTLIST DEPARTMENT
    DEPARTMENT_ID CDATA #REQUIRED
    SALARY CDATA #IMPLIED>
<ATTLIST TRIP
    TRIP_ID CDATA #REQUIRED>
<ATTLIST CAR_RENTAL
    CAR_MODEL CDATA #REQUIRED
    STAFF_ID CDATA #REQUIRED>
```