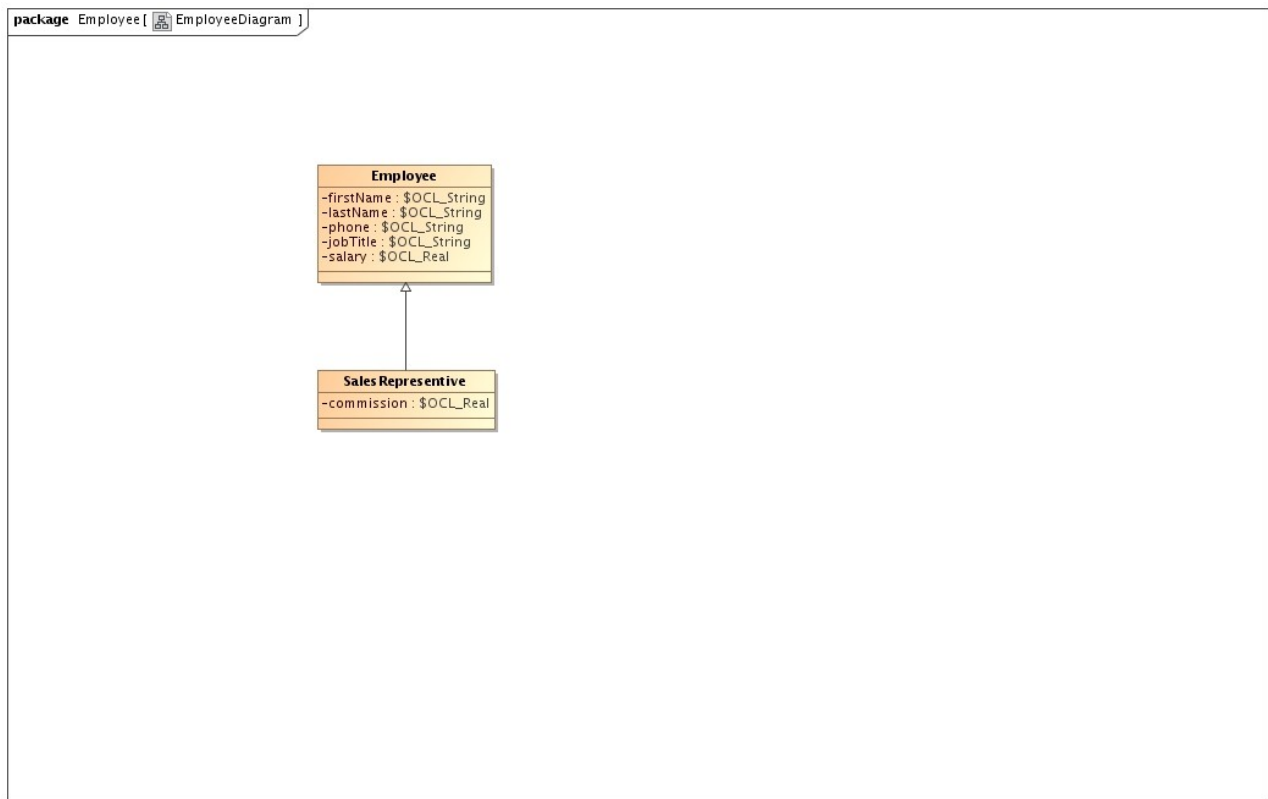Lab 4
Name: Shun Zhang
EID: sz4554

Part 1

--@(#) script.ddl

CREATE TABLE EmployeeTable.Employee.Employee
(
        firstName,
        lastName,
        phone,
        jobTitle,
        salary,
        id_Employee integer,
        PRIMARY KEY(id_Employee)
);

CREATE SEQUENCE EmployeeTable.Employee.Employee_SEQ;

CREATE TABLE EmployeeTable.Employee.SalesRepresentive
(
        commission,
        id_Employee integer,
        PRIMARY KEY(id_Employee),
        FOREIGN KEY(id_Employee) REFERENCES EmployeeTable.Employee.Employee
(id_Employee)
);

Part 2
To create tables

CREATE TABLE Team
(
        teamName varchar(30),
        coach varchar(30),
        venue varchar(30),
        id_Team integer,
        PRIMARY KEY(id_Team)
);

CREATE TABLE Game
(
        id_Game integer,
        fk_AwayTeamid integer NOT NULL,
        fk_HomeTeamid integer NOT NULL,
  AwayTeamScore integer,
  HomeTeamScore integer,
        PRIMARY KEY(id_Game),
        FOREIGN KEY(fk_AwayTeamid) REFERENCES Team (id_Team),
        FOREIGN KEY(fk_HomeTeamid) REFERENCES Team (id_Team)
);

Query statement (the part to get the total scores of a team duplicated. I tried to make t2 refer to t1 but it doesn't work.)

select teamname from
team
join
(select t1.teamid from
(select teamid, sum(score) as sumscore from
(select fk_hometeamid as teamid, hometeamscore as score
from game
union all
select fk_awayteamid as teamid, awayteamscore as score
from game)
group by teamid) t1

left outer join

(select teamid, sum(score) as sumscore from
(select fk_hometeamid as teamid, hometeamscore as score
from game
union all
select fk_awayteamid as teamid, awayteamscore as score
from game)
group by teamid) t2

on t1.sumscore < t2.sumscore
where t2.teamid is null)
on id_team = teamid

Worksheet   Query Builder

```sql
select teamname from
team
join
(select t1.teamid from
(select teamid, sum(score) as sumscore from
(select fk_hometeamid as teamid, hometeamscore as score
from game
union all
select fk_awayteamid as teamid, awayteamscore as score
from game)
group by teamid) t1

left outer join

(select teamid, sum(score) as sumscore from
(select fk_hometeamid as teamid, hometeamscore as score
from game
union all
select fk_awayteamid as teamid, awayteamscore as score
from game)
group by teamid) t2

on t1.sumscore < t2.sumscore
where t2.teamid is null)
on id_team = teamid
```

Query Result x

SQL | All Rows Fetched: 1 in 0.015 seconds

	TEAMNAME
1	A