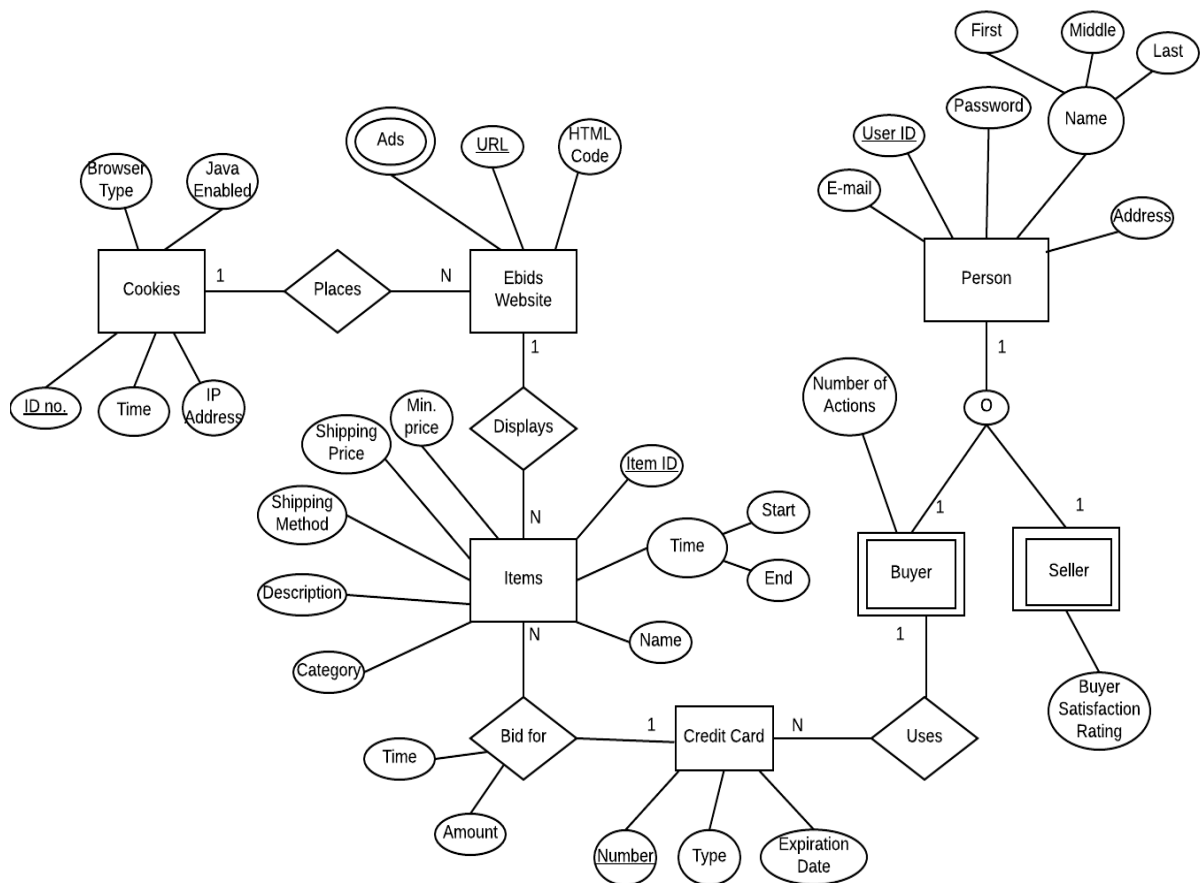- Course : EECS 495. Intro to Database Systems

- Name : Sangrin Lee

- Student ID : 2999428

- Problem No. 1 – ER Diagram

- Problem No. 2 – SQL Tables

```
create table Department
        (Dept_no char(20),
        Dept_name char(20),
        Dept-head char(20),
        Emp_no char(20) not null,
        primary key (Dept_no),
        foreign key (Emp_no) references Employee),
        on delete cascade on update cascade);

create table Employee
        (Emp_no char(20),
        Emp_name char(20),
        Room_no char(20),
        Subemployee char(20) not null,
        Dept_no char(20) not null,
        primary key (Emp_no),
        foreign key (Subemployee) references Employee
        on delete cascade on update cascade,
        foreign key (Dept_no) references Department
        on delete cascade on update cascade);

create table Salary
        (Salary_level int,
        Mon_Salary char(20),
        primary key(Salary_level));

create table Job
        (Job_code char(20),
        Job_title char(20),
        primary key(Job_code));
```

```
create table Project
        (Proj_code char(20),
        Proj_name char(20),
        Start_date char(20),
        End_date char(20),
        Emp_no char(20) not null,
        primary key(Proj_code));
        foreign key(Emp_no) references Employee
        on delete cascade on update cascade);


create table Work-on
        (Emp_no char(20),
        Proj_code char(20),
        primary key(Emp_no, Proj_code),
        foreign key(Emp_no) references Employee
        on delete cascade on update cascade,
        foreign key(Proj_code) references Project
        on delete cascade on update cascade);


create table Salary-hist
        (Emp_no char(20),
        Salary_level int,
        Job_code char(20) not null,
        primary key(Emp_no, Salary_level, Job_code),
        foreign key(Emp_no) references Employee
        on delete cascade on update cascade,
        foreign key(Salary_level) references Salary
        on delete cascade on update cascad),
        foreign key(Job_code) references Job
        on delete cascade on update cascade);
```