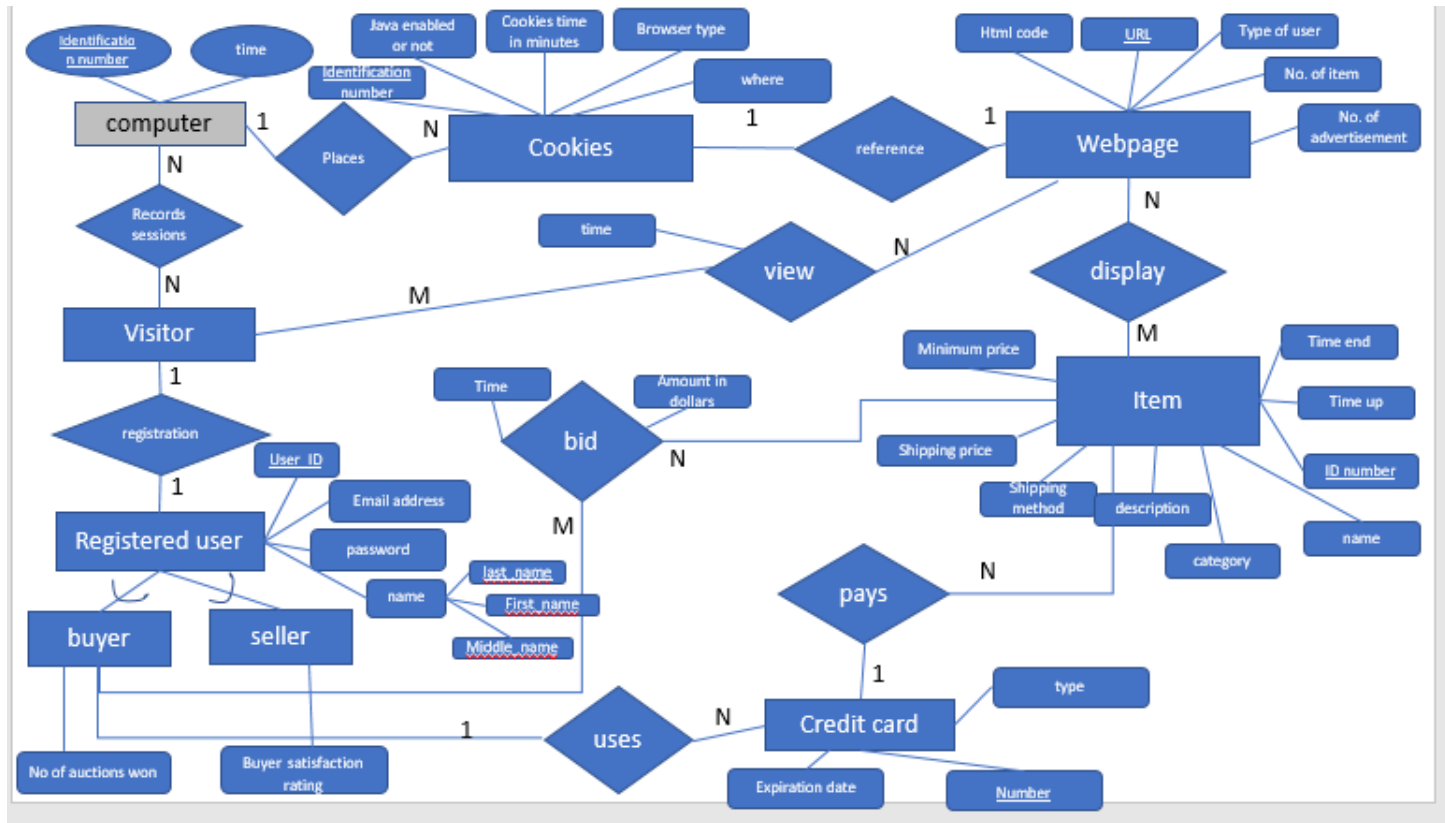


1. ER diagram



2.

Create table **employee**

(Emp_no char(20),

Emp_name char(20),

Room_no char(20),

Dep_no char(20),

Manager_no char(20),

Job_no char(20) not null,

Primary key (Emp_no),

Foreign key (dep_no) references department

On delete set null on update cascade,

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Foreign key (manager_no) references employee

On delete set null on update cascade)

Foreign key (job_no) references job

On delete set null on update cascade);

Create table **Salary**

(Salary_level char(20),

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 **salary-hist**

(Emp_no char(20),

Salary_level char(20),

Job_code char(20),

Primary key(Emp_no,salary_level),

Foreign key (Emp_code) references employee

On delete cascade on update cascade ,

Foreign key (Salary_level) references Salary

On delete cascade on update cascade ,

Foreign key (job_code) references job

On delete cascade on update cascade);

Create table **department**

(Dept_no char(20),
Dept_name, char(20),
Dept_head char(20),
Emp_id char(20),
Primary key (dept_no),
Foreign key (emp_id) references **employee**
On delete cascade on update cascade);

Create table **Project**

(Proj_code char(20),
Proj_name, char(20),
Start_date char(20),
End_date char(20),
emp_no char(20),
Primary key (proj_code),
Foreign key (emp_no) references **employee**
On delete set null on update cascade);

Create table **works_on**

(Emp_no char(20),
Proj_code, char(20),
Primary key(emp_no,proj_code),
Foreign key (emp_no) references **employee**
On delete set null on update cascade,
Foreign key (proj_code) references **project**
On delete set null on update cascade);

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3.

create table **department**

(dept_no integer,

Dept_name char(20),

Emp_id char(10),

Manager_no char(10),

Primary key (dept_no),

Foreign key (emp_id) references **employee**

On delete set null on update cascade);

Create table **employee**

(emp_id char(10),

Emp_no char(10),

Manager_no char(10),

Primary key (emp_id),

Foreign key (manager_no) references **department**

On delete set null on update cascade

Foreign key (dept_no) references **department**

On delete set default on update cascade);

