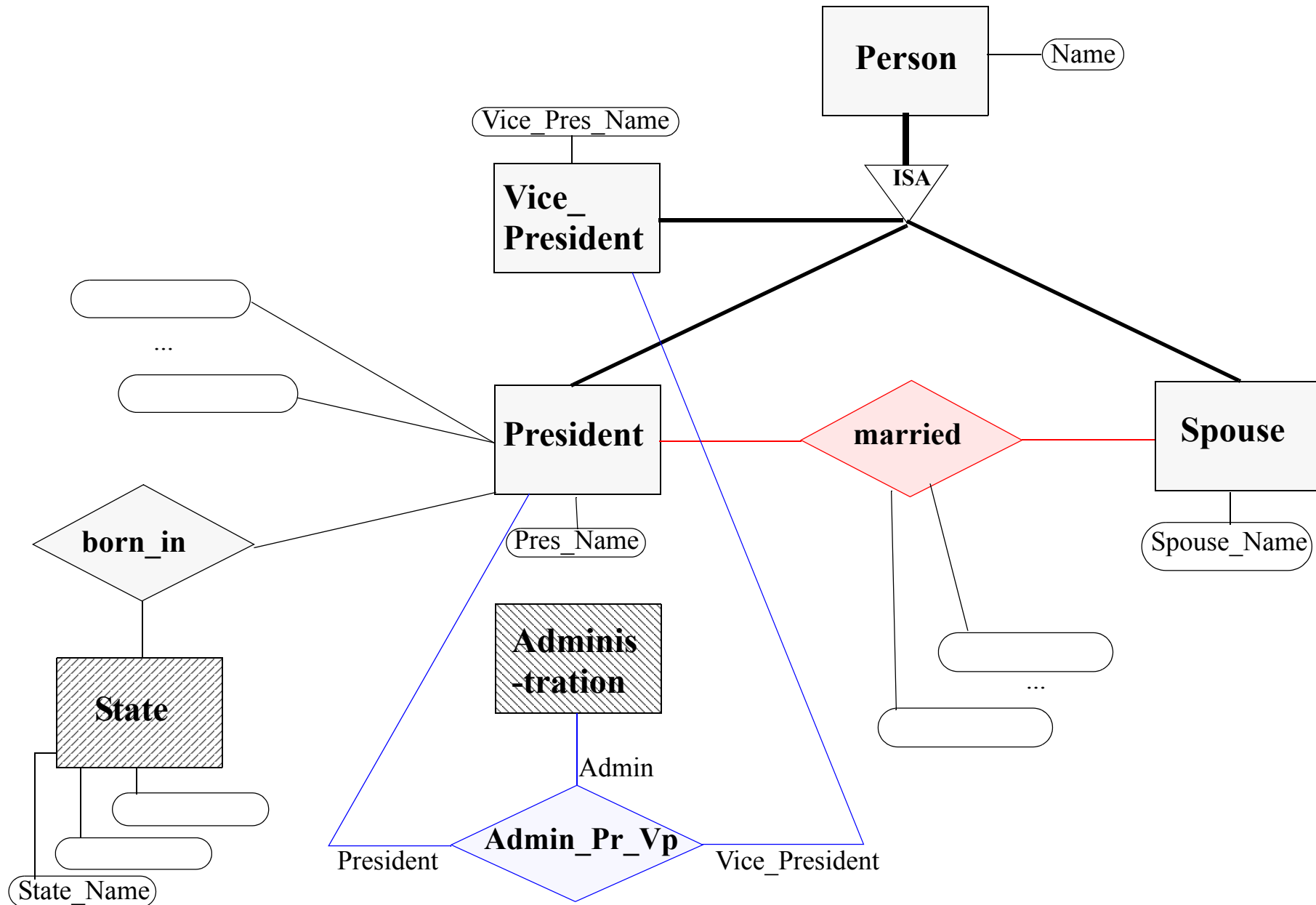
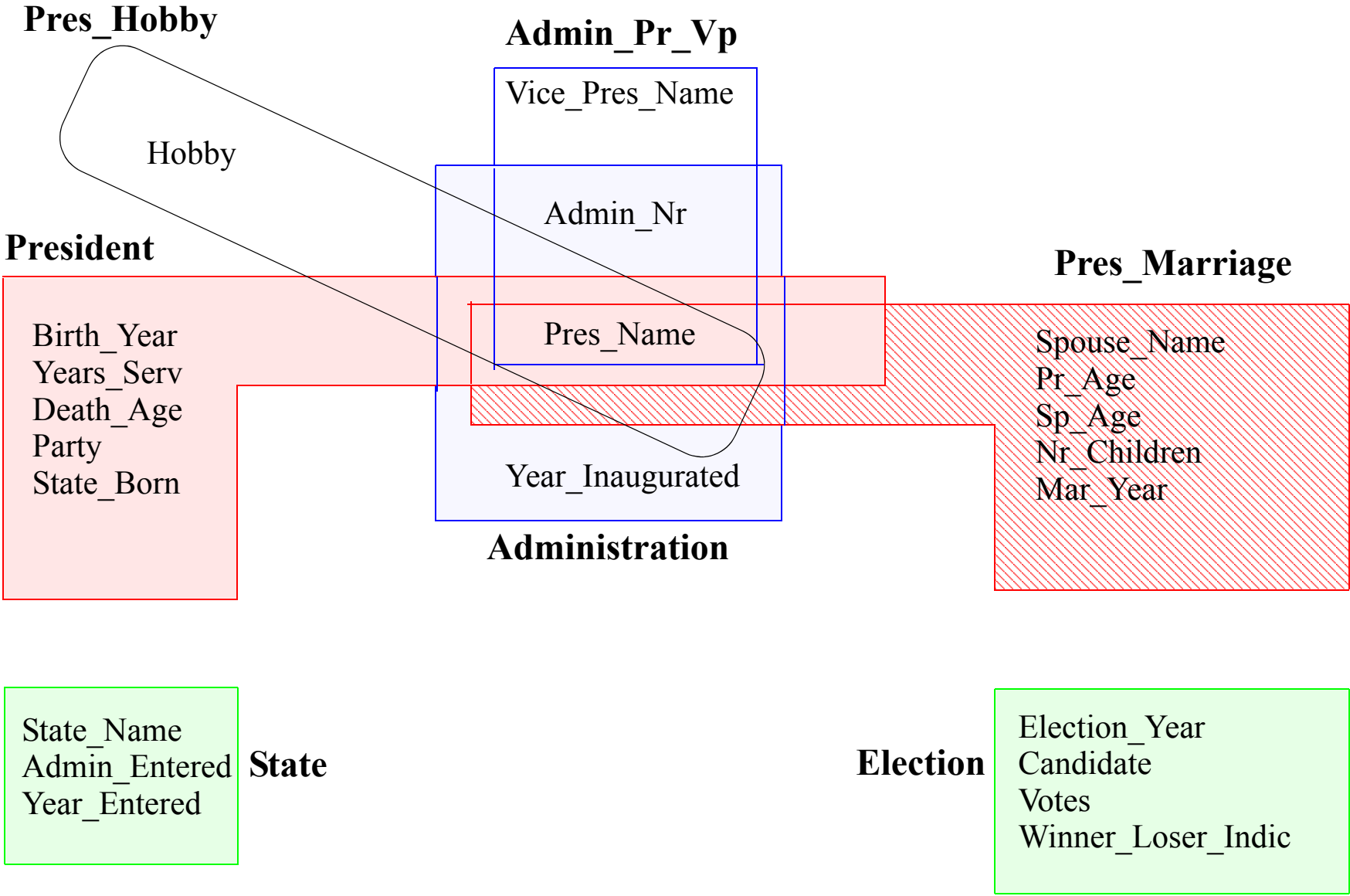


ER-Diagramm für Präsidenten-Datenbank (Ausschnitt)



Hypergraph zum Oracle-Schema für Präsidenten-Datenbank



Oracle-Schema für Präsidenten-Datenbank

```
create table State (  
  State_Name      varchar2(17)    primary key,  
  Admin_Entered   number(3),  
  Year_Entered    number(4)      not null  
);
```

```
create table President (  
  Pres_Name       varchar2(17)    primary key  
                                     check (Pres_Name LIKE '%_'),  
  Birth_Year      number(4)      not null,  
  Years_Serv      number(2)      not null,  
  Death_Age       number(3),  
  Party           varchar2(12)    not null,  
  State_Born      varchar2(17)    not null  
);
```

Oracle-Schema für Präsidenten-Datenbank (Fortsetzung)

```
create table Pres_Hobby (  
  Pres_Name      varchar2(17)      references President  
                                     on delete cascade,  
  
  Hobby          varchar2(18),  
  
                                     primary key ( Pres_Name, Hobby )  
);
```

```
create table Administration (  
  Admin_Nr       number(3),  
  
  Pres_Name      varchar2(17)      references President,  
  
  Year_Inaugurated number(4)      not null,  
  
                                     primary key ( Admin_Nr, Pres_Name ),  
                                     check (Year_Inaugurated  
                                             BETWEEN 1785+4*Admin_Nr  
                                             AND 1789+4*Admin_Nr)  
);
```

Oracle-Schema für Präsidenten-Datenbank (Fortsetzung)

```
create table Admin_Pr_Vp (  
  Admin_Nr      number(3),  
  Pres_Name     varchar2(17),  
  Vice_Pres_Name varchar2(17),  
                foreign key ( Admin_Nr, Pres_Name ) references Administration,  
                primary key ( Admin_Nr, Pres_Name, Vice_Pres_Name ),  
                check (Pres_Name != Vice_Pres_Name)  
);
```

Oracle-Schema für Präsidenten-Datenbank (Fortsetzung)

```
create table Pres_Marriage (  
  Pres_Name      varchar2(17)    references President,  
  Spouse_Name    varchar2(17),  
  Pr_Age         number(3)      not null,  
  Sp_Age         number(3)      not null,  
  Nr_Children    number(2)      not null,  
  Mar_Year       number(4)      not null,  
                                     primary key ( Pres_Name, Spouse_Name )  
);
```

```
create table Election (  
  Election_Year  number(4),  
  Candidate      varchar2(17),  
  Votes          number(3),  
  Winner_Loser_Indic char(1)    not null,  
                                     primary key ( Election_Year, Candidate )  
);
```