



Law Firm Database

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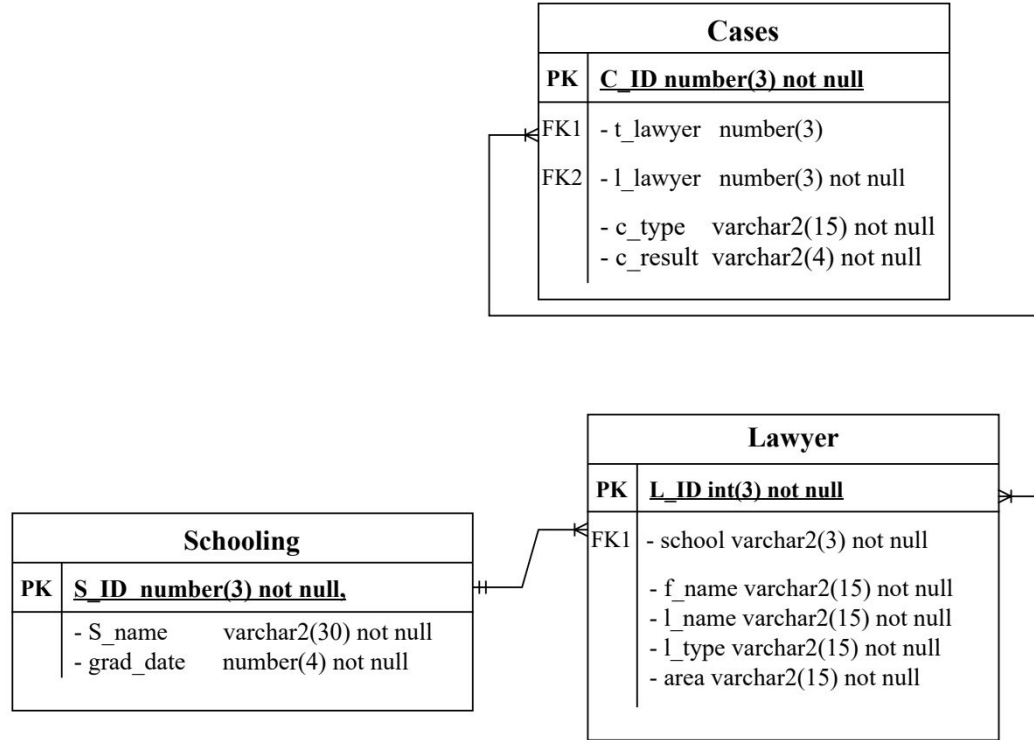
Introduction

- Our goal was to create a database that acts as a way to organize lawyers in a law firm
- In law firms, networking is crucial and this database will help lawyers find others who are working on the same cases as them, those who work in the same area of law, and those who attended the same law school

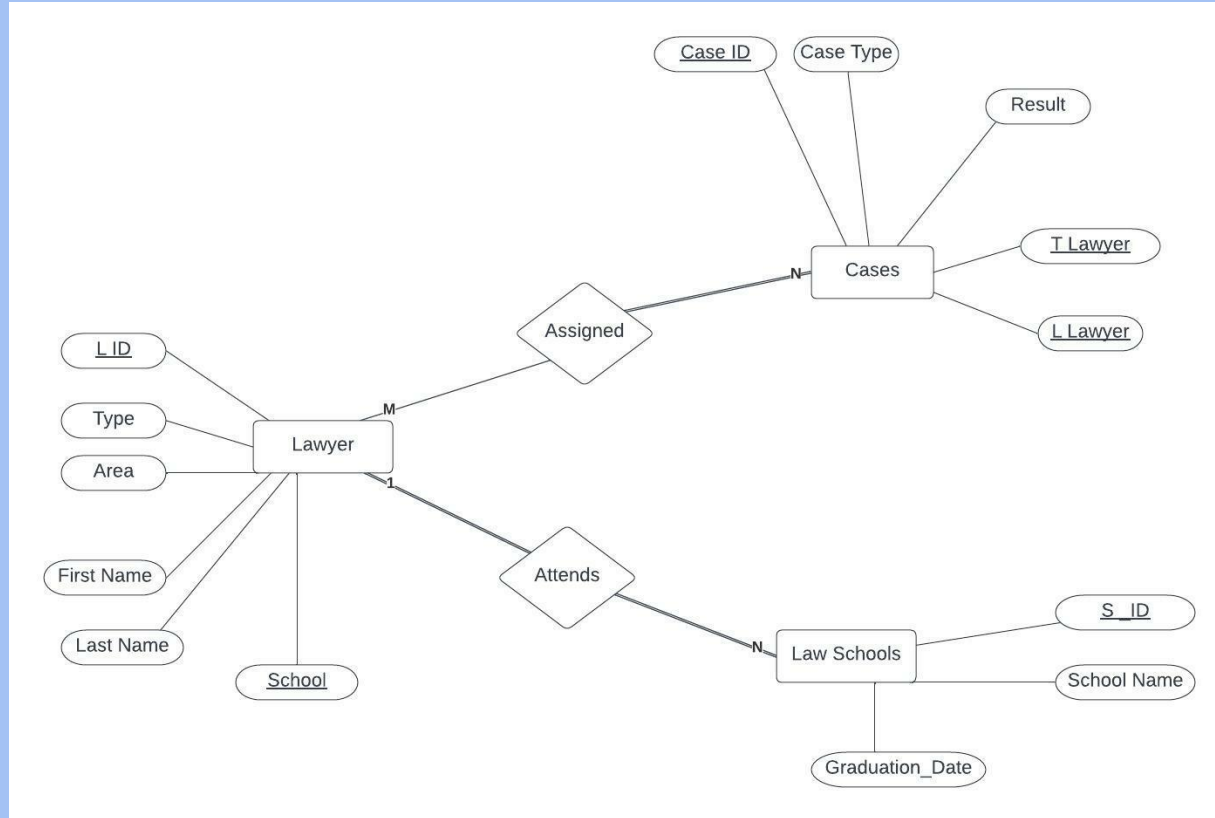
Problem Statement

- Why is this database relevant?
 - Crucial for building good working relationships in the law firm and to know one's colleagues in the same practice
 - Networking is important, especially in the legal field.
 - Less intimidating when a new lawyer can find more experienced lawyers who attended their alma mater

ER Schema



ER Diagram



Tables Created

```
DROP TABLE Lawyer CASCADE CONSTRAINTS;
CREATE TABLE Lawyer (
  L_ID      number(3) not null,
  fname     varchar2(15) not null,
  lname     varchar2(15) not null,
  L_type    varchar2(15) not null,
  area      varchar2(15) not null,
  school    number(3) not null,

  primary key (L_ID),
  foreign key (school) references Schooling(S_ID)
);
```

```
DROP TABLE Case CASCADE CONSTRAINTS;
CREATE TABLE Case (
  C_ID      number(3) not null,
  C_type    varchar2(15) not null,
  C_result  varchar2(10) not null,
  t_lawyer  number(3),
  l_lawyer  number(3) not null,

  primary key (C_ID),
  foreign key (t_lawyer) references Lawyer(L_ID),
  foreign key (l_lawyer) references Lawyer(L_ID)
);
```

```
DROP TABLE Schooling CASCADE CONSTRAINTS;
CREATE TABLE Schooling (
  S_ID      number(3) not null,
  S_name     varchar2(30) not null,
  grad_date  number(4) not null,

  primary key (S_ID)
);
```

Data Entry

```
INSERT INTO Lawyer VALUES ('001', 'Naime', 'Dubicki', 'Transactional', 'IP', '001');
INSERT INTO Lawyer VALUES ('002', 'Yasin', 'Ranta', 'Transactional', 'IP', '005');
INSERT INTO Lawyer VALUES ('003', 'Natalia', 'Temitope', 'Litigator', 'IP', '004');
INSERT INTO Lawyer VALUES ('004', 'Halina', 'Baird', 'Litigator', 'Corporate', '003');
INSERT INTO Lawyer VALUES ('005', 'Dragos', 'Saari', 'Litigator', 'Health', '002');
INSERT INTO Lawyer VALUES ('006', 'Adam', 'Vladimirescu', 'Litigator', 'Criminal', '002');
INSERT INTO Lawyer VALUES ('007', 'Adzo', 'Zdunowski', 'Litigator', 'Criminal', '004');
INSERT INTO Lawyer VALUES ('008', 'Fedya', 'Kwan', 'Transactional', 'Corporate', '005');
INSERT INTO Lawyer VALUES ('009', 'Kolya', 'Panossian', 'Transactional', 'Corporate', '002');
INSERT INTO Lawyer VALUES ('010', 'Bogdana', 'Nowicki', 'Litigator', 'Civil', '002');
INSERT INTO Lawyer VALUES ('011', 'Volodya', 'Sokolov', 'Transactional', 'Tax', '004');
INSERT INTO Lawyer VALUES ('012', 'Xiaolong', 'Chen', 'Litigator', 'Criminal', '004');
INSERT INTO Lawyer VALUES ('013', 'Ngozi', 'Lau', 'Litigator', 'IP', '002');
INSERT INTO Lawyer VALUES ('014', 'Valerian', 'MacEalair', 'Transactional', 'IP', '001');
INSERT INTO Lawyer VALUES ('015', 'Tayeb', 'Moray', 'Litigator', 'Corporate', '007');
INSERT INTO Lawyer VALUES ('016', 'Hovik', 'Ma', 'Litigator', 'Civil', '004');
INSERT INTO Lawyer VALUES ('017', 'Iulia', 'Kovačević', 'Transactional', 'Tax', '007');
INSERT INTO Lawyer VALUES ('018', 'Ece', 'Borysov', 'Transactional', 'Health', '006');
INSERT INTO Lawyer VALUES ('019', 'Aristarkh', 'Jež', 'Transactional', 'Corporate', '005');
INSERT INTO Lawyer VALUES ('020', 'Oliwia', 'Du', 'Litigator', 'Civil', '006');
INSERT INTO Lawyer VALUES ('021', 'Wamalwa', 'Branković', 'Litigator', 'Civil', '003');
INSERT INTO Lawyer VALUES ('022', 'Naomhán', 'Czajkowski', 'Litigator', 'Criminal', '007');
INSERT INTO Lawyer VALUES ('023', 'Ahmadu', 'McQueen', 'Litigator', 'Criminal', '005');
INSERT INTO Lawyer VALUES ('024', 'Daliborka', 'Guan', 'Litigator', 'Corporate', '002');
INSERT INTO Lawyer VALUES ('025', 'Iomhar', 'Szweda', 'Litigator', 'Criminal', '007');
INSERT INTO Lawyer VALUES ('026', 'Sandra', 'Ferguson', 'Litigator', 'IP', '004');
INSERT INTO Lawyer VALUES ('027', 'Jehona', 'Tang', 'Litigator', 'IP', '007');
INSERT INTO Lawyer VALUES ('028', 'Bratislava', 'Sówka', 'Transactional', 'IP', '001');
INSERT INTO Lawyer VALUES ('029', 'Stanislovas', 'Albescu', 'Transactional', 'Corporate', '004');
INSERT INTO Lawyer VALUES ('030', 'Ayla', 'Rutherford', 'Litigator', 'Tax', '004');
INSERT INTO Lawyer VALUES ('031', 'Vaska', 'Maisuradze', 'Litigator', 'Corporate', '003');
INSERT INTO Lawyer VALUES ('032', 'Eugeniusz', 'Tomczak', 'Transactional', 'Corporate', '001');
INSERT INTO Lawyer VALUES ('033', 'Nashwa', 'Tse', 'Litigator', 'Criminal', '001');
INSERT INTO Lawyer VALUES ('034', 'Abdur-Rahim', 'Ivanović', 'Litigator', 'Criminal', '006');
INSERT INTO Lawyer VALUES ('035', 'Waldek', 'Innes', 'Litigator', 'IP', '001');
```

```
INSERT INTO Case VALUES ('100', 'Criminal', 'Win', null, '007');
INSERT INTO Case VALUES ('101', 'Civil', 'Win', null, '020');
INSERT INTO Case VALUES ('102', 'Corporate', 'Loss', null, '024');
INSERT INTO Case VALUES ('103', 'IP', 'Win', '001', '003');
INSERT INTO Case VALUES ('104', 'Tax', 'Loss', '017', '030');
INSERT INTO Case VALUES ('105', 'Health', 'Win', '018', '005');
INSERT INTO Case VALUES ('106', 'Criminal', 'Loss', null, '024');
INSERT INTO Case VALUES ('107', 'Corporate', 'Win', null, '034');
INSERT INTO Case VALUES ('108', 'Civil', 'Ongoing', null, '010');
INSERT INTO Case VALUES ('109', 'Criminal', 'Ongoing', null, '022');
INSERT INTO Case VALUES ('110', 'Corporate', 'Ongoing', '029', '024');
INSERT INTO Case VALUES ('111', 'Corporate', 'Ongoing', '009', '015');
INSERT INTO Case VALUES ('112', 'Criminal', 'Ongoing', null, '025');
INSERT INTO Case VALUES ('113', 'IP', 'Ongoing', null, '013');
INSERT INTO Case VALUES ('114', 'IP', 'Ongoing', '028', '035');
```

```
INSERT INTO Schooling VALUES ('001', 'Villanova', '1998');
INSERT INTO Schooling VALUES ('002', 'Villanova', '2020');
INSERT INTO Schooling VALUES ('003', 'Seton Hall', '2002');
INSERT INTO Schooling VALUES ('004', 'Penn State', '2018');
INSERT INTO Schooling VALUES ('005', 'Penn State', '1999');
INSERT INTO Schooling VALUES ('006', 'Temple', '1992');
INSERT INTO Schooling VALUES ('007', 'Drexel', '1980');
```

Queries

To find all the lawyers working on a specific case

```
SELECT c.C_ID, c.t_lawyer, c.l_lawyer, l.fname, l.lname, l.L_type
FROM Case c, Lawyer l
WHERE c.C_ID= 103 and (c.t_lawyer=l.l_id or c.l_lawyer=l.l_id);
```

C_ID	T_LAWYER	L_LAWYER	FNAME	LNAME	L_TYPE
103	1	3	Naime	Dubicki	Transactional
103	1	3	Natalia	Temitope	Litigator

Queries (cont'd)

To find all the lawyers working on an ongoing case in a certain area

```
SELECT l.L_ID, l.area, l.fname, l.lname, c.c_result, c.C_ID, l.L_type
FROM Case c, Lawyer l
WHERE l.area='IP' and c.c_result='Ongoing' and(c.t_lawyer=l.l_id or c.l_lawyer=l.l_id)
ORDER by l.L_ID;
```

L_ID	AREA	FNAME	LNAME	C_RESULT	C_ID	L_TYPE
13	IP	Ngozi	Lau	Ongoing	113	Litigator
28	IP	Bratislava	Sówka	Ongoing	114	Transactional
35	IP	Waldek	Innes	Ongoing	114	Litigator

Queries (cont'd)

To find all the lawyers that work in a specific area

```
SELECT area, L_ID, fname, lname  
FROM Lawyer  
WHERE area = 'Corporate';
```

AREA	L_ID	FNAME	LNAME
Corporate	4	Halina	Baird
Corporate	8	Fedya	Kwan
Corporate	9	Kolya	Panossian
Corporate	15	Tayeb	Moray
Corporate	19	Aristarkh	Jež
Corporate	24	Daliborka	Guan
Corporate	29	Stanislovas	Albescu
Corporate	31	Vaska	Maisuradze
Corporate	32	Eugeniusz	Tomczak

Queries (cont'd)

To find all the lawyers that attended a specific school

```
SELECT s.S_name, s.grad_date, l.L_ID, l.fname, l.lname  
FROM Schooling s, Lawyer l  
WHERE s.S_name = 'Villanova' AND l.School = s.S_ID;
```

S_NAME	GRAD_DATE	L_ID	FNAME	LNAME
Villanova	1998	1	Naime	Dubicki
Villanova	2020	5	Dragos	Saari
Villanova	2020	6	Adam	Vladimirescu
Villanova	2020	9	Kolya	Panossian
Villanova	2020	10	Bogdana	Nowicki
Villanova	2020	13	Ngozi	Lau
Villanova	1998	14	Valerian	MacEalair
Villanova	2020	24	Daliborka	Guan
Villanova	1998	28	Bratislava	Sówka
Villanova	1998	32	Eugeniusz	Tomczak
Villanova	1998	33	Nashwa	Tse
S_NAME	GRAD_DATE	L_ID	FNAME	LNAME
Villanova	1998	35	Waldek	Innes

Demo

Conclusion: Major Takeaways

- Networking in the legal world is crucial
 - Our database allows for networking to be easier within the law firm
- We can search for lawyers in a specific area of practice, if they litigate or are transactional, and also who is working on which case. This also helps new lawyers find experienced lawyers working in the same area as them along with being a fellow litigator or transactional lawyer
- In the real world, this database would be a lot more nuanced and could potentially include all the law schools a lawyer attended (but for the sake of simplicity, we did not include the scenario of if a lawyer transferred law schools during their legal career)

Thank you for your attention.
Do you have any questions?

