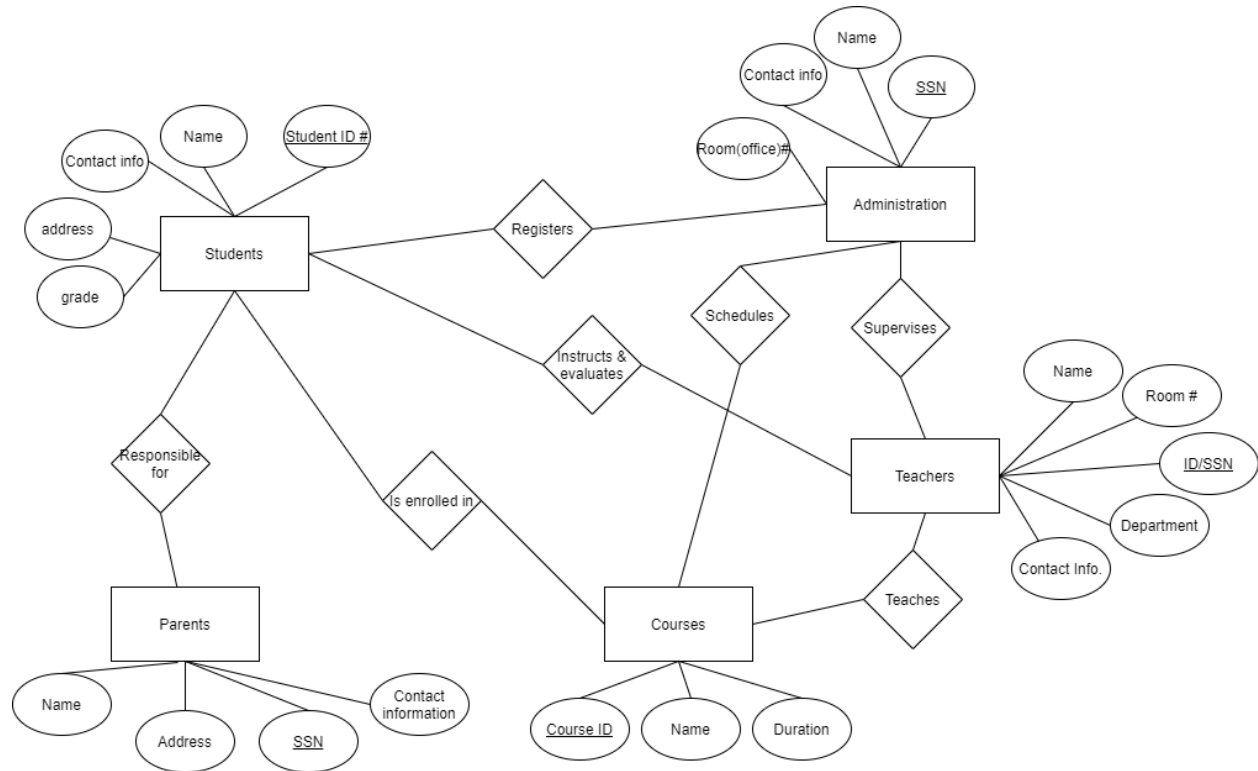


Ethan Engel

COMP3429

Assignment 3



Relational Model

Students(sid, grade, name, contact_information, address)

Administration(aid, name, office, contact_information)

Teachers(tid, name, department, room, contact_information)

Courses(course_id, name, credits)

Parents(pid, name, address, contact_information)

Registers(aid, sid)

Instructs(sid, tid)

Enrolled_in(sid, course_code)

Responsible_For(pid, sid)

Schedules(aid, course_code)

Supervises(aid, tid)

```
mysql> create table Students(
```

```
-> sid int,
```

```
-> grade int,
```

```
-> name varchar(25),
```

```
-> contact_information varchar(50),
```

```
-> address varchar(50),
```

```
-> Primary Key(sid));
```

```
mysql> create table Administration(
```

```
-> aid int,
```

```
-> name varchar(25),
```

```
-> office int,
```

```
-> contact_information varchar(50),
```

```
-> Primary Key(aid));
```

```
mysql> create table Teachers(
```

```
-> tid int,
```

```
-> name varchar(25),
```

```
-> department varchar(25),
```

```
-> room int,
```

```
-> contact_information varchar(50),
```

```
-> Primary Key (tid));
```

```
mysql> create table Courses(
```

```
-> course_id varchar(10),
```

```
-> name varchar(25),
```

```
-> credits float,
```

```
-> Primary Key (course_id));
```

```
mysql> create table Parents(
```

```
-> pid int,
```

```
-> name varchar(25),
```

```
-> address varchar(50),
```

-> contact_information varchar(50),

-> Primary Key(pid));

mysql> create table Registers(

-> aid int,

-> sid int,

-> Primary Key(aid,sid));

mysql> create table Instructs(

-> tid int,

-> sid int,

-> Primary Key(tid,sid));

mysql> create table Enrolled_In(

-> sid int,

-> course_id varchar(10),

-> Primary Key(sid,course_id));

mysql> create table Responsible_For(

-> pid int,

-> sid int,

-> Primary Key(pid,sid));

mysql> create table Schedules(

-> aid int,

-> course_id varchar(10),

-> Primary Key(aid,course_id));

mysql> create table Supervises(

-> aid int,

-> tid int,

-> Primary Key(aid,tid));

```
mysql> describe administration;
```

Field	Type	Null	Key	Default	Extra
aid	int	NO	PRI	NULL	
name	varchar(25)	YES		NULL	
office	int	YES		NULL	
contact_information	varchar(50)	YES		NULL	

4 rows in set (0.62 sec)

```
mysql> describe courses;
```

Field	Type	Null	Key	Default	Extra
course_id	varchar(10)	NO	PRI	NULL	
name	varchar(25)	YES		NULL	
credits	float	YES		NULL	

3 rows in set (0.06 sec)

```
mysql> describe enrolled_in;
```

Field	Type	Null	Key	Default	Extra
sid	int	NO	PRI	NULL	
course_id	varchar(10)	NO	PRI	NULL	

2 rows in set (0.01 sec)

```
mysql> describe instructs;
```

Field	Type	Null	Key	Default	Extra
tid	int	NO	PRI	NULL	
sid	int	NO	PRI	NULL	

2 rows in set (0.04 sec)

```
mysql> describe parents;
```

Field	Type	Null	Key	Default	Extra
pid	int	NO	PRI	NULL	
name	varchar(25)	YES		NULL	
address	varchar(50)	YES		NULL	
contact_information	varchar(50)	YES		NULL	

4 rows in set (0.03 sec)

```
mysql> describe registers;
```

Field	Type	Null	Key	Default	Extra
aid	int	NO	PRI	NULL	
sid	int	NO	PRI	NULL	

2 rows in set (0.04 sec)

```
mysql> describe responsible_for;
```

Field	Type	Null	Key	Default	Extra
pid	int	NO	PRI	NULL	
sid	int	NO	PRI	NULL	

2 rows in set (0.05 sec)

```
mysql> describe students;
```

Field	Type	Null	Key	Default	Extra
sid	int	NO	PRI	NULL	
grade	int	YES		NULL	
name	varchar(25)	YES		NULL	
contact_information	varchar(50)	YES		NULL	
address	varchar(50)	YES		NULL	

5 rows in set (0.01 sec)

```
mysql> describe supervises;
```

Field	Type	Null	Key	Default	Extra
aid	int	NO	PRI	NULL	
tid	int	NO	PRI	NULL	

2 rows in set (0.02 sec)

mysql> describe teachers;

Field	Type	Null	Key	Default	Extra
tid	int	NO	PRI	NULL	
name	varchar(25)	YES		NULL	
department	varchar(25)	YES		NULL	
room	int	YES		NULL	
contact_information	varchar(50)	YES		NULL	

5 rows in set (0.03 sec)

mysql> Insert into teachers values(1234567, "Nugent, Theodore", "Science", 218, "ted.nugent@medford.edu 634-2718");

Query OK, 1 row affected (1.41 sec)

mysql> insert into supervises values(1523, 66666666);

Query OK, 1 row affected (0.21 sec)

mysql> insert into students values(12999, 10, "Streets, Kristian", "Kristian.Streets@medford.student.edu 541-777-8274", "1080 Siskiyou Lane")

-> ;

Query OK, 1 row affected (0.23 sec)

```
mysql> select * from teachers;
```

tid	name	department	room	contact_information
1234567	Nugent, Theodore	Science	218	ted.nugent@medford.edu 634-2718
1357908	Derelict, Stephen	Mathematics	304	stephen.derelict@medford.edu 634-1119
6666666	Pegleg, Kyle	Language Arts	111	kyle.pegleg@medford.edu 634-4448

3 rows in set (0.04 sec)

```
mysql> select * from supervises;
```

aid	tid
1523	6666666

1 row in set (0.00 sec)

```
mysql> select * from students;
```

sid	grade	name	contact_information	address
12999	10	Streets, Kristian	Kristian.Streets@medford.student.edu 541-777-8274	1080 Siskiyou Lane

1 row in set (0.00 sec)