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Database Management Systems (CSC434)

Final Project

README: I made college database (including foreign key, primary key and data) SQL file called college.sql in the file directory. You can always run or check this file to see my database.

- 1) Define the information content of your database.
- a)-Define a set of entities and appropriate attributes for each entity.

 Minimum 10 entities.

Note: The first attribute is primary key, the Blue color entity means entity created automatically by Visual Paradigm because of many to many relationship (intermediate table).

- Students: Student_ID; First_Name; Last_Name; Country;

 Age; Phone; Email; Expected_graduation_year; Address;

 Hobby;
- Major: Major Name; Department; Minimum GPA; DepartmentId
- Students Major: Students StudentId; Major MajorId
- Course: CourseId; Course_Name; Seats Avaliable;

 Professor ProfessorId; SubjectId; ClassSceduleId;
- Student Course: Students StudentId; Course CourseId

```
    Classroom: ClassroomId; Classroom_Name; Buildings;
Location; Capacity;
    Classroom_Course: Classroom_ClassroomId; Course_CourseId
    Course_Scedule: CourseSceduleId; Meeting_Day; Time_Start;
        Time_End
    Subject: SubjectId; Subject_Name; DepartmentId
    Professors: ProfessorId; First_Name; Last_Name; Email;
        Phone; Address
    Subject_Professors: Subject_SubjectId;
        Professors_ProfessorId
    Titles: TitleId; Type
    Titles: Titles_Titled; Professors_ProfessorId
    Manager: ManagerId; First_Name; Last_Name; Phone; Address
```

b)-Define a set of relationships that might exist between/among entities and attributes. Such relationships may include one-to-one, one-to-many and many-to-many associations.

• Advisor: AdvisorId; First Name; Last Name; Phone; Address

• Department: DepartmentId; Name; AdvisorId; ManagerId

Students - Course: Many to many

(One student can take many course, and one course can have many students)

Students - Major: Many to many

(One student can have one or more major, and one major can have many students.)

Major - Department: Many to one

(One major must belong to one department, but one department can have many major)

Department - Manager: One to one

(One department can only have one manager, and one manager can only manage one specific department)

Department - Advisor: One to one

(One department can only have one advisor, and one advisor can only manage one specific department)

Department - Subject: One to many

(One department can have many subjects, but one subject can only belong to one department.)

Subject - Course: One to many

(One subject can have many different courses, but one course must have one subject)

Course - Course_Schedule: Many to one

(One course_Schedule can have many different courses, but one course can only have on specific schedule.)

Course - Classroom: Many to many

(One course may have one or more classroom, and one classroom can have many different courses.)

Professor - titles: Many to many

(One professor can have one or more titles, and one titles can have many different professors.)

Professor - subject: Many to many

(One professor can teach many different subject course, and one subject course can have many different professors.)

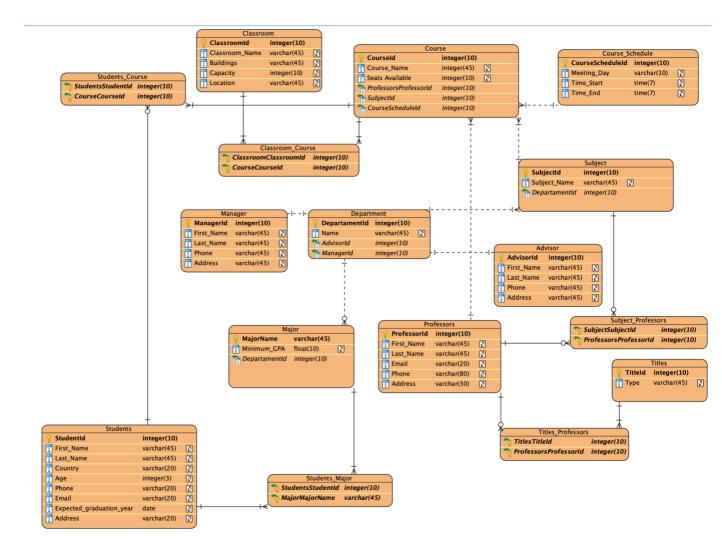
c)-Define a set of constraints that may be imposed on data.

- One department can only have 1 manager.
- One department can only have 1 advisor.
- Student must take at least one course
- Every Professor must have proper title, such as Ph.d,
 Academic or assistant

- One major can only belong to one department.
- One course can only belong to one subject, such as CSC or MATH.
- A course must have at least one classroom.
- A course must have a course schedule
- One manager can only manage one department.
- One advisor can only work for one department.

(For example, CAS advisor are not allowed to help ART department students.)

2) - Define an E-R Diagram for your database design.



- 3) Define a relational schema for your database design.
- a)-Define one or more realistic key(s) for every relation scheme. Use both simple and composite keys.
 - Student: The primary key should be SutdentId, since StudentId is unique.
 - **Students_Course:** Both Students_StudentId and Course CourseId are foreign keys.

- Course: CourseId should be primary key, because it is unique. And Professors_professorId, SubjectId, CourseScheduleId are foregin keys.
- **Students_Major:** Both Students_StudentId and Major MajorName are foreign keys.
- Major: MajorName is primary key because it is unique. The DepartmentId is foregn key.
- Department: The primary key should be

 DepartmentId, the foregn keys are AdvisorId and

 ManageId.
- Manager: ManagerId should be primary key since it is unique.
- Advisor: AdvisorId should be primary key.
- Course_Schedule: The primary key should be CourseScheduledId since it is unique.
- Subject: SubjectId should primary key and the DepartmentId should be foreign key.
- Ttitles: The titleId should be primary key.
- Titles_Professor: Both Titles_TtitleId and Professor ProfessorId are foreign keys.

- **Professors:** ProfessorId should be primary key since it is unique.
- Subject_Professors: Both Subject_SubjectId and Professors ProfessorId are foreign keys.
- Classroom: The primary key should be classroomId since it is unique.
- Classroom_Course: Both Classroom_ClassroomId and Course CourseId are foreign keys.

b)-Define a realistic set of Functional / Multi-Valued Dependencies (when appropriate) for every relation scheme.

Note: "→" means functional dependencies and "→→" means multi-valued dependencies

Student:

StudentId → First Name

StudentId > Last_Name

StudentId \rightarrow Country

StudentId → Age

StudentId → Phone

StudentId → Email

StudentId $\rightarrow \rightarrow$ Address (Student may have several address)

StudentId $\rightarrow \rightarrow$ Hobby (Student may have several hobby)

Major:

MajorName → Minimum GPA

Manager:

 ${\tt ManagerId} \; {\boldsymbol{\rightarrow}} \; {\tt First_Name}$

ManagerId → Last_Name

ManagerId \rightarrow Phone

ManagerId $\rightarrow \rightarrow$ Address (Manager may have several address)

Classroom:

ClassroomId \rightarrow Classroom Name

ClassroomId → Buildings

ClassroomId \rightarrow Capacity

ClassroomId → Location

Course:

CourseId \rightarrow Course_Name

CourseId → Seats Avaliable

Department:

DepartmentId → Name

Professors:

ProfessorId → First_Name

 ${\tt ProfessorId} \, \xrightarrow{\hspace*{1cm}} \, {\tt Last_Name}$

ProfessorId → Email

ProfessorId → Phone

ProfessorId $\rightarrow \rightarrow$ Address (Professor may have several adress)

Advisor:

AdvisorId \rightarrow First_Name

AdvisorId > Last_Name

AdvisorId → Phone

AdvisorId $\Rightarrow \Rightarrow$ Address (Advisor may have several address)

Titles

TitleId → Type

Subjec

SubjectId → Subject Name

Course Schedule

CourseScheduledId → Meeting_Day

CourseScheduledId → Time_Start

CourseScheduledId → Time_End

C-Check whether your relational schema is in 2NF, 3NF, BCNF, 4NF.

2NF:

Since 2NF is every non-key field must depend on the entire primary key, not on part of composite primary key.

My "college database" only has one single primary key (for all entities), so it is automatically in 2NF.

3NF:

Since 3NF is a non-key field cannot depend on another non-key field. (or do not have transitive dependency.)

I can't find any transitive dependency on my college database, so my database is in 3NF.

BCNF:

Since BCNF means that for any dependency $A \rightarrow B$, A should be a super key.

In my classroom entity,

Classroom: ClassroomId; Classroom_Name; Buildings; Location;
Capacity;

Sometimes, classroom_name is unique, so it is determinant the classroomId.

How to solve this?

I'm going to delete classroom_Name or delete ClassroomId.

After doing this, all my database is in BCNF.

4NF: Since 4NF means that it should be not have multi-valued dependency in database.

As I checked my database, I have several multi-valued lists in previous question. So, my database is not in 4NF.

To be in 4NF, I just need to decompose the table into 2 tables.

Since we consider a relation in BCNF to be fully normalized, I don't have to change my database to archive in 4NF.

d)-Put your relational schema in the highest normal form that is possible.

As I mentioned in the previous question, my database is in 3NF. Since in many cases, 3NF can be seen as highest normal form, I don't need to do any change.

If I want my database in 4NF, then I will change my database below:

We need to constrain the classroom is unique and delete classroom ID to meet BCNF.

To be in 4NF, I need to delete multi-valued function by using decompose the table into 2 tables.

For example:

Student (StudentId, name, Hobby), in this table, hobby cause the functional dependency, so we need to decompose the table as:

```
Student (StudentId, Name)

Hobby_Student (HobbyId, StudentId) (Since the relationship is many to many, so we need to create intermediate table)

Hobby(HobbyId, Hobby name)
```

- 4) Implementation: Create your database using Oracle, or MySQL, or... to Perform the following operations.
 - A) You are required to execute SQL queries that include the following operations. For each query, provide the SQL statements along with the output. For each of the following, try different SQL statements (i.e., using one relation, more than one relations,...).

select involving one/more conditions in Where Clause

```
select * from Course
where SubjectId = 1
and CourseScheduledId = 1;
```

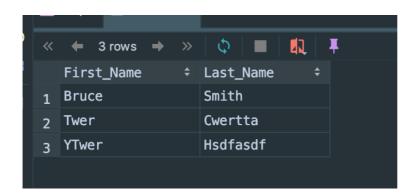
Output:



For another more difficult example, if I want to find students whose major is computer science:

```
select First_Name, Last_Name from Students, Students_Major, Major
where studentsId = Students_StudentId
and MajorName = Major_MajorName
and majorName = "computer science";
```

output:



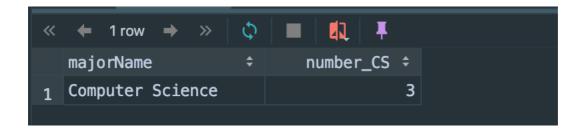
select with aggregate functions (i.e., SUM,MIN,MAX,AVG,COUNT)

Count:

If I want to know how many students' major is computer science. Then the SQL should be:

```
select majorName, count(StudentsId) as number_CS from students,
Students_Major, Major
where StudentsId = Students_StudentId
and Major_MajorName = MajorName
and MajorName = "Computer Science"
group by majorName;
```

Output:

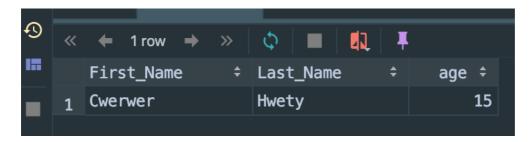


Min:

If I want to find youngest students in college, I will use SQL below:

select First_Name, Last_Name, age from students where
age = (select min(age) from Students);

Output:

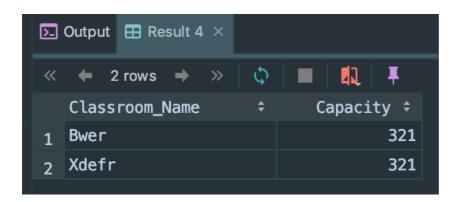


Max:

If I want to find which classroom can contain more students than any other classroom, I will use sql below:

```
select Classroom_Name, Capacity from Classroom
where Capacity = (select max(Capacity) from Classroom)
```

Output:

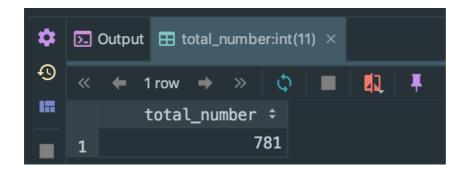


Sum:

If I want to find how many total classroom capacity available, I will use SQL below:

select sum(Capacity) as total_number from Classroom;

Output:



AVG:

If I want to find the average seats available for each course, I will use SQL below:

```
select avg(Seats_Avaliable) from Course;
```

Output:

select with Having, Group By, Order By clause

Only "Having":

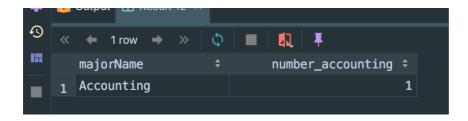
```
select* from Course
having Seats_Avaliable = 25;
Output (In this case, having = where):
```



Having and group by:

```
select majorName, count(StudentsId) as number_accounting from
students, Students_Major, Major
where StudentsId = Students_StudentId
and Major_MajorName = MajorName
group by majorName
having MajorName = "Accounting";
```

Output



Order by:

If I want to compare course's seats available, I will write SQL below:

```
select * from Course
order by Seats_Avaliable;
```

Output:

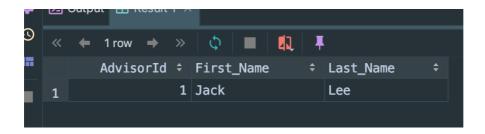
» «	← 9 rows → » 🗘 🔳 👯	#			
	CourseId ÷ Course_Name	Seats_Avaliable ÷	professor_ProfessorId ÷	SubjectId ÷	CourseScheduledId ‡
1	5 courseExample 5	21	5	5	5
2	1 High Level Math	25	1	1	1
3	8 courseExample 8	25	8	8	8
4	3 courseExample 3	32	3	3	3
5	7 courseExample 7	32		7	
6	9 courseExample 9	36	9	9	9
7	6 courseExample 6	42	6	6	6
8	2 courseExample 2	124	2	2	2
9	4 courseExample 4	234	4	4	4

Nested Select:

If I want to know who CAS advisor is, I will do SQL below:

```
select AdvisorId, First_Name, Last_Name from Advisor
where AdvisorId = (select AdvisorId from Department
    where name = "CAS")
```

output:



select involving the Union operation

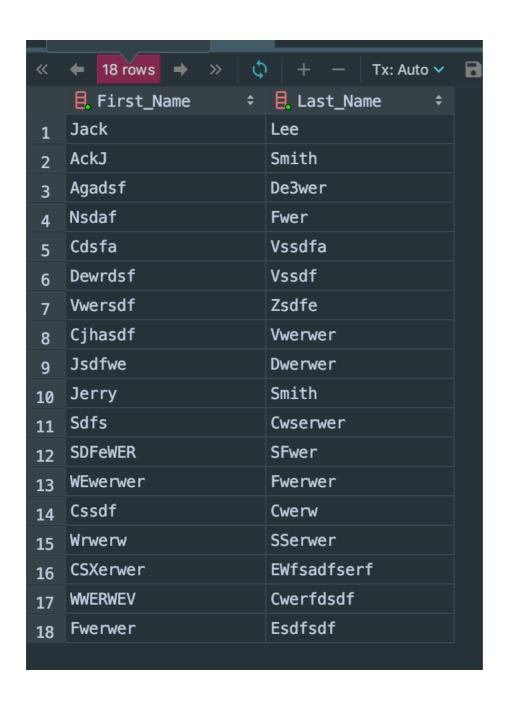
If I want to see all advisor and all manager in all departments, I will use sql below:

select First_Name, Last_Name from Advisor

union

select First_Name, Last_Name from Manager

output:



- Insert:

insert one tuple into a table:

Table before insert:



SQL:

```
insert into Major (MajorName, Minimum_GPA, DepartmentId)

values ("Music", 2.0, 6)
```

Table after insert:



insert a set of tuples (by using another select statement)

First, let's create table called ChineseStudents by using SQL below:

```
create table ChineseStudents

(
StudentsId int auto_increment
primary key,

First_Name varchar(45) not null,

Last_Name varchar(45) not null,

Country varchar(20) not null,

Age int not null,

Phone varchar(20) not null,

Email varchar(20) not null,

Expacted_graduation_year date not null,

Address varchar(20) not null

);
```

Then, insert all Chinese student to the table:

```
insert into ChineseStudents
select * from Students
where country = "China";
```

The Chinese table become to:

insert involving two tables

Firstly, let's create table which involving two tables.

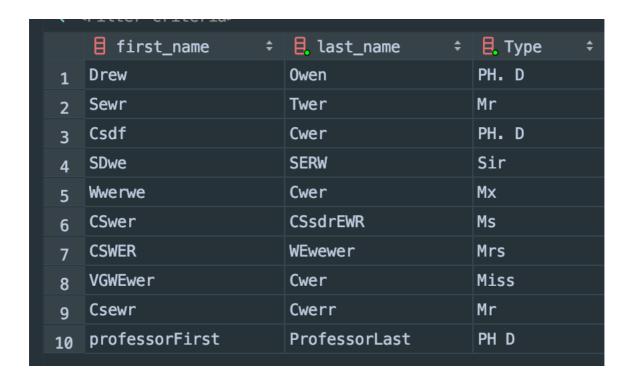
```
create table professorTitle as
select first_name, last_name, Type
from Professors,
    titles,
    Titles_Professors
where ProfessorId = Professors_ProfessorId
and TitleId = Titles_TitleId;
```



Then, insert to table by using SQL:

```
create table professorTitle as
select first_name, last_name, Type
from Professors,
    titles,
    Titles_Professors
where ProfessorId = Professors_ProfessorId
and TitleId = Titles_TitleId;
```

After insert, the table become to:



- Delete: delete one tuple or a set of tuples: from one table, from multiple tables.

From one table:

My requirement is deleting all about music major information.

Table before delete:

(Q	<filter criteria=""></filter>			
		⊶ MajorName	<pre> ■ Minimum_GPA </pre>	o∓ DepartmentId ‡	
ы	1	Accounting	2.2	2	
	2	Computer Science	2.8	1	
	3	majorExample1	1.3	5	
	4	majorExample2	2.4	7	
	5	Math	2.8	1	
	6	Music	2	6	

Mysql:

```
delete from Major

where MajorName = "music";
```

Table after delete:



From multiple table to delete:

My requirement is delete all professors Title is PH.

D

Table before delete:



MySQL:

```
delete
from Professors
```

Table after delete:



- Update: update one tuple or a set of tuples: from one table, from multiple tables.

From one table:

My requirement is to change student Bruce Smith's country from U.S. to U.K.

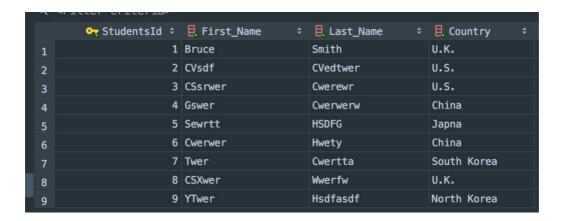
Table before update:

`	12000 01200120			
	• StudentsId ≎	<pre> E. First_Name</pre>	<pre>■ Last_Name</pre>	■ Country ÷
1	1	Bruce	Smith	U.S.
2	2	CVsdf	CVedtwer	U.S.
3	3	CSsrwer	Cwerewr	U.S.
4	4	Gswer	Cwerwerw	China
5	5	Sewrtt	HSDFG	Japna
6	6	Cwerwer	Hwety	China
7	7	Twer	Cwertta	South Korea
8	8	CSXwer	Wwerfw	U.K.
9	9	YTwer	Hsdfasdf	North Korea

MySQL:

```
update students
set country = "U.K."
where First_Name = "Bruce"
and Last_Name = "Smith";
```

Table after update:



From multiple table to update:

My requirement is updating all computer science students' country to Canada.

Table before update:

Q	<filter criteria=""></filter>			
	ა StudentsId ‡	First_Name ÷	Last_Name ÷	<pre>■ Country ÷</pre>
1	1	Bruce	Smith	U.K.
2	2	CVsdf	CVedtwer	U.S.
3	3	CSsrwer	Cwerewr	U.S.
4	4	Gswer	Cwerwerw	China
5	5	Sewrtt	HSDFG	Japna
6	6	Cwerwer	Hwety	China
7	7	Twer	Cwertta	South Korea
8	8	CSXwer	Wwerfw	U.K.
9	9	YTwer	Hsdfasdf	North Korea

MySQL:

Table after update:

Q	Q <filter criteria=""></filter>						
	ა StudentsId ≎	<pre> ☐ First_Name</pre>	Last_Name \$	■ Country ÷			
1	1	Bruce	Smith	Canada			
2	2	CVsdf	CVedtwer	U.S.			
3	3	CSsrwer	Cwerewr	U.S.			
4	4	Gswer	Cwerwerw	China			
5	5	Sewrtt	HSDFG	Japna			
6	6	Cwerwer	Hwety	China			
7	7	Twer	Cwertta	Canada			
8	8	CSXwer	Wwerfw	U.K.			
9	g	YTwer	Hsdfasdf	Canada			

- Create View:
- based on one relation and more than one relation:

One relation view:

If I want to create a view to show all Chinese students, I will write MySQL below:

```
create view CHIN_students_info as
select *
from students
where Country = "China";
```

output:



More than one relation view:

If I want to create a view, I called high_capacity_Classroom_Course which would show a courser's classroom capacity can contain more than 100 students.

MySQL:

```
create view High_capacity_Classroom_Course as
    select Course_Name, Classroom_Name, Capacity from course,
Classroom, Classroom_Course
    where courseId = CourseCourseId
    and Classroom_ClassroomId = ClassroomId
    and Capacity > 100;
```

Output:

		Q <filter criteria=""></filter>						
	Course_Name ÷	‡	Classroom_Name	‡	🗒 Capacity 🕏			
1 co	ourseExample 4		Sewrwe		261			
2 co	ourseExample 5		Bwer		321			
3 co	ourseExample 6		Xdefr		321			
4 CC	ourseExample 7		Csdf		125			

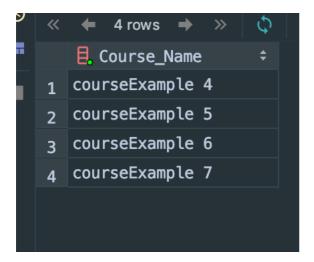
- operate on View (i.e., select, insert, delete, update,..)

I'm going to operate my view I created last question high capacity Classroom Course.

Select VIEW:

select Course_Name from high_capacity_classroom_course;

Output:

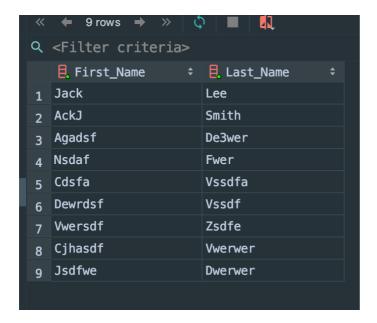


Insert VIEW:

First, let's create another view:

```
create view Advisor_name as
    select First_Name, Last_Name from Advisor;
```

Table before insert:



Insert view MySQL:

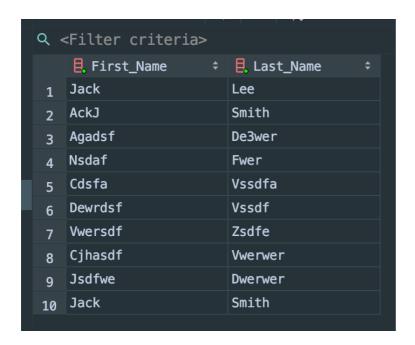
```
insert into advisor_name (First_Name, Last_Name) VALUES
("Jack", "Smith");
```

Table after insert:



Delete VIEW:

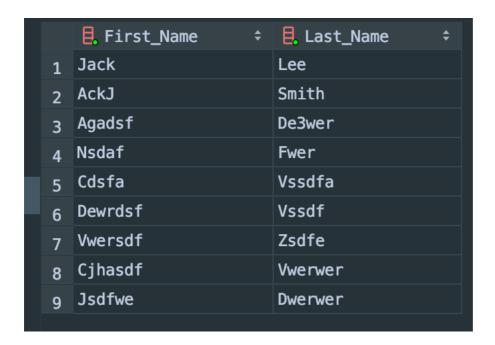
Table before delete:



MySQL:

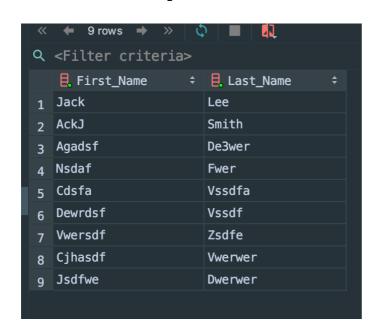
```
delete from advisor_name
where First_Name = "Jack"
and Last_Name = "Smith";
```

Table after delete:



Update VIEW:

Table before update:



SQL:

```
update advisor_name set First_Name = "LEE"
where Last_Name = "Smith";
```

Table after update:



TRIGGER

B) Also, create at least 4 different practical/useful triggers (written in MySQL) for your database to perform the following tasks:

- enforcing referential integrity

I create a trigger Advisor_delete. If user delete department, then the department advisor also will delete automatically.

```
Delimiter $$

create trigger Advisor_delete after delete on Department

for each row

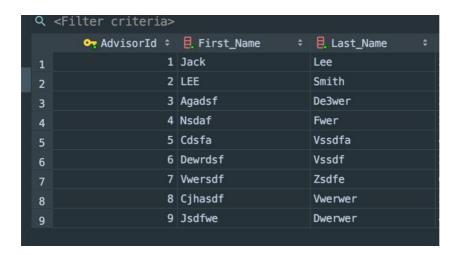
begin

delete from Advisor
```

```
where AdvisorId = old.AdvisorId;
end $$
```

Let's check if it is work.

Advisor table:



After I run MySQL below to delete apartment:

```
delete from Department
where DepartmentId = 1;
```

The advisor table become to:



So, the trigger successfully deletes the CAS advisor automatically.

I also create Manage_delete trigger, when user delete department, the trigger will automatically delete the department manager.

```
Delimiter $$
create trigger Manager_delete after delete on Department
for each row
begin
delete from Manager
where ManagerId = old.ManagerId;
end $$
```

Since the method of the trigger is the same, I didn't take the screenshot for this trigger.

- enforcing attribute domain constraints

I'm going to make trigger that constraints college's department.

Right now, my database department is below:



I don't want to user add any other major to a new department.

So, the trigger should be:

Delimiter \$\$

Create trigger Department_domain_checking before insert on

Major

For each row

Begin

Declare temp *int*; *set* temp=0;

Select count(*) into temp

From Department where

Department.DepartmentId=new.DepartmentId;

If temp=0 then

Insert into mylog values('Invalid Major');

Insert into anytable values('This major is not offered'); End if,

End; \$\$

Let's test (I create a new departmentId 15):

insert into major (MajorName, Minimum_GPA, DepartmentId)
values ("test",2.3,15);

Then the error pop up:

[42S02][1146] Table 'college.anytable' doesn't exist

We are not allowed to add major to a new department anymore (15 is new department ID). The trigger is successfully prevented that happen.

- creating database log

For this trigger, I'm going to create new table called log.

```
Create table StudentLog (message varchar(70));
```

Trigger:

```
Delimiter $$
create trigger Student_Log after insert on students
  for each row
  begin
    insert into StudentLog values(concat('Student has been added by
',current_user(), ' on ',current_date()));
  end;
  $$
```

Let's active by using:

```
insert into students (First_Name, Last_Name, Country, Age,
Phone, Email, Expacted_graduation_year, Address)

values ("Bruce", "Guo", "Japna", 21, "20234234",

"asdfaea@gmail.com", "2021-04-09", "addresss test 1");
```

Then the studentLog automatically add information below:

- gathering statistics

I'm going to create student's age summary trigger.

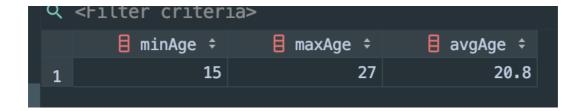
First, create table student age summary

create table student_age_summary(minAge double, maxAge double, avgAge
double);

The trigger code should be:

```
Delimiter $$
create trigger age_sum after insert on Students
for each row
begin
delete from student_age_summary;
insert student_age_summary
select min(age), max(age), avg(age) from students;
end; $$
```

After I insert a new student in student table, the trigger automatically made Age summary for me:



ColdFusion

Use MySQL and ColdFusion to create a Web-based application to enable the user to do the following operations:

Add a record

I made "add student" on web server.

Student table before adding:

```
Student ID: 1 First Name: Bruce | Last Name: Smith | Country; U.S. | Age: 21 | Phone: 2424234134 | Email: werwea@gmail.com | Year To grauduate: 2021-04-08 | First Name: CVsdf | Last Name: CVedtwer | Country; U.S. | Age: 21 | Phone: 23462345 | Email: asdfikj@gmail.com | Year To grauduate: 2019-04-01 | First Name: CStruct | Last Name: Cwerwer | Country: U.S. | Age: 21 | Phone: 23451235 | Email: asdfikj@gmail.com | Year To grauduate: 2019-04-01 | First Name: Gswer | Last Name: Cwerwer | Country: U.S. | Age: 21 | Phone: 23451235 | Email: asdfikj@gmail.com | Year To grauduate: 2019-04-01 | First Name: Gswer | Last Name: Cwerwer | Country: U.S. | Age: 21 | Phone: 23451245 | Email: werwea@gmail.com | Year To grauduate: 2019-04-01 | First Name: Sewrit | Last Name: HsDFG | Country: Japan | Age: 21 | Phone: 2345264 | Email: werwea@gmail.com | Year To grauduate: 2019-04-04 | First Name: Sewrit | Last Name: HsDFG | Country: Clinia | Age: 15 | Phone: 2345264 | Email: werwea@gmail.com | Year To grauduate: 2019-04-24 | First Name: Name: HsDFG | Country: C
```

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Then, I add student on the web server:

Add Student:													
StudentId: 1	10	First Name:	test studnet	Last Name:	test studnet		Country:	adsf		Age:	12		Phone:
	234234234	Email: w	eaer@asdf.com	expected_grad	uation_year:	2021-04-0	9	Address:	asdefasdf			Submit	

Student has been dadded

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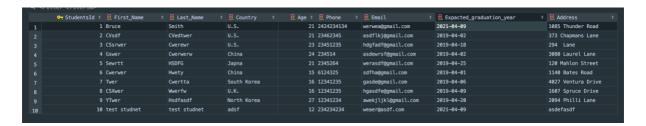
Then, let's check student table:

```
Student ID: 1 First Name: Bruce Last Name: Smith Country: U.S. Age: 21 Phone: 2424234134 Email: werwea@gmail.com Year To grauduate: 2019-04-01 Student ID: 2 First Name: CSsrwer Last Name: Cwerewr Country: U.S. Age: 21 Phone: 23451235 Email: agdfkj@gmail.com Year To grauduate: 2019-04-01 Student ID: 4 First Name: Gswer Last Name: Cwerewr Country: U.S. Age: 23 Phone: 23451235 Email: agdmail.com Year To grauduate: 2019-04-01 Student ID: 5 First Name: Sewrt Last Name: HSDFG Country: Country: Country: U.S. Age: 24 Phone: 234514 Email: asdewrsf@gmail.com Year To grauduate: 2019-04-01 Student ID: 5 First Name: Sewrt Last Name: Hwety Country: Country:
```

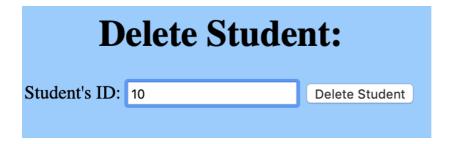
We can see that student 10 has been added.

Delete a record

Student table before delete:



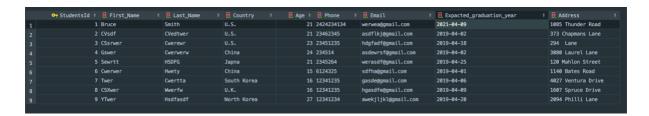
Then, I write the studentID in web server:



Student has been deleted

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Let's check student table now:

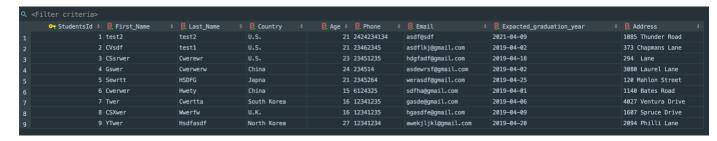


Student 10 has been successfully deleted.

Update a record

I made student update ColdFusion.

Student table before update:



Then I put student Twer name to the web server:



Updating Student's Record:

First Name:	Twer		Last Name:	Cwertta	Country:	South	Korea	Age:	16	Phone:
12341235		Email:	gasde@gmail.com	Address:	4027 Ventura Drive					
Update Stude	nt's Record									

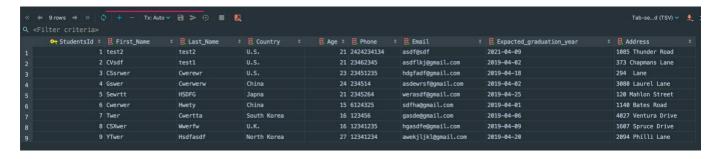
Change the phone number to 123456

After click button:

Student's Record has been updated

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Finally, let's check student's table:



Student Twer's phone has been updated to 123456.

Query (at least 3 select statements on one relation)

The first query: Find students:

As you can see from the screenshot below, you can type student name Bruce here:

Find Student:

Student's Name: Bruce Find Student

Once you click find student, the page will find the student Bruce's all information:

Find Student's Record:

Student ID: 1 First Name: Bruce Last Name: test3 Country: U.S. Age: 21 Phone: 2424234134 Email: werwea@gmail.com Year To grauduate: 2021-04-08

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The second query: Find advisor:

As you can see from the screenshot below, you can type advisor ID "1" here:

Find Advisor: Type the Advisor ID to find the information 1 Find Advisor

Once you click find advisor, the page will find the advisor's all information:

Find Advisor's Record:

Advisor ID: 1 First Name: Jack Last Name: Lee Phone 2024123123 Address: 2422 Dye Street

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The Third query: Find classroom:

As you can see from the screenshot below, you can type classroom name "Cdsdf" here:

Find Classroom:

Type the classroom'name to find the information Cdsdf

Find classroom

Once you click find advisor, the page will find the classroom's all information:

Find Classroom Record:

classroom ID: 3 Class Room: Cdsdf Buildings: Csdaf Capacity: 23 Location: 2318 Ingram Street

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