(DATABASE)

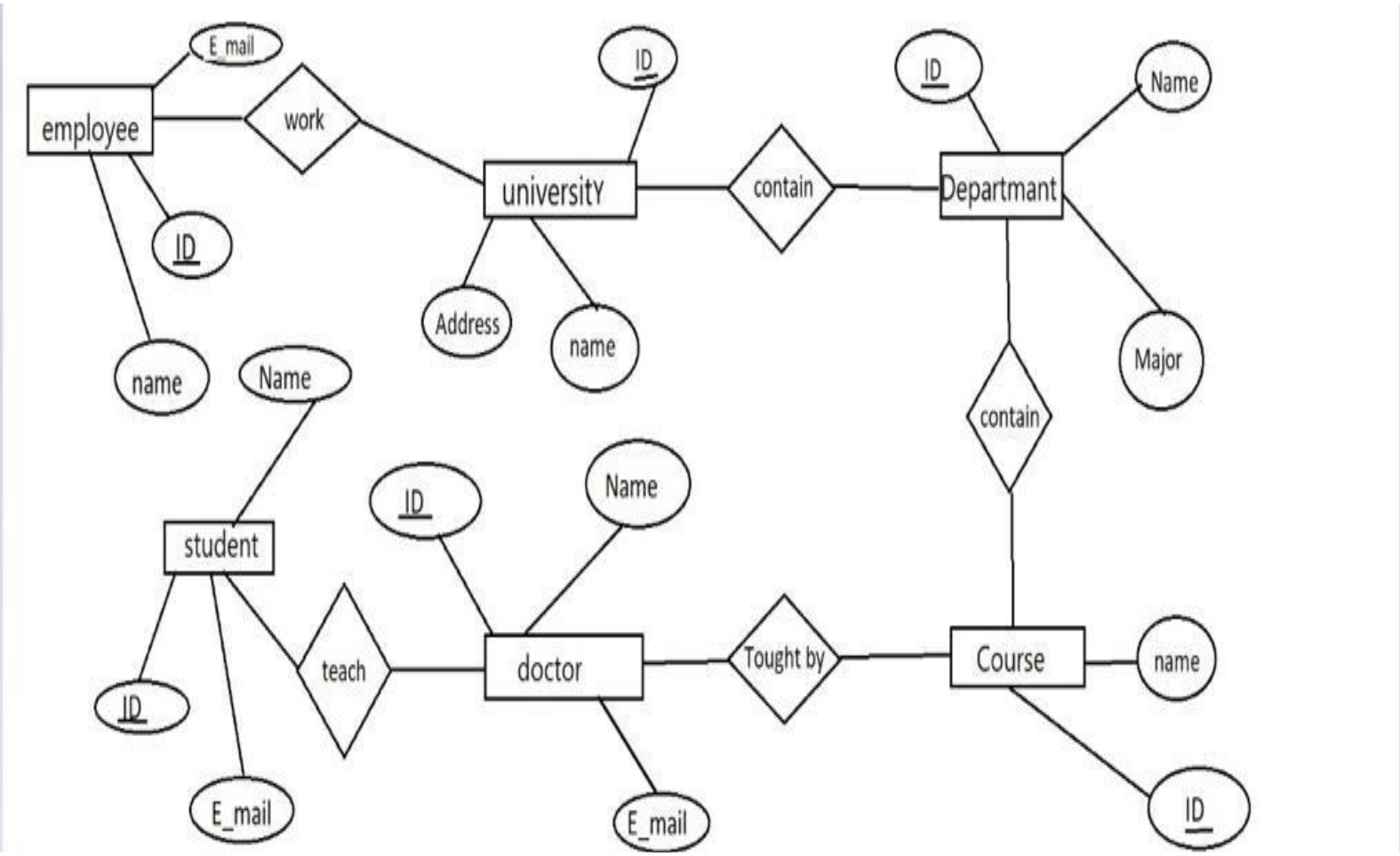
(DS221_7th_project_ Yousef ali)

Name :- Yousef Ali

Reg :- 20101108

Doctor :- Hichan Elmongui

Eng :- Nagy K.Aly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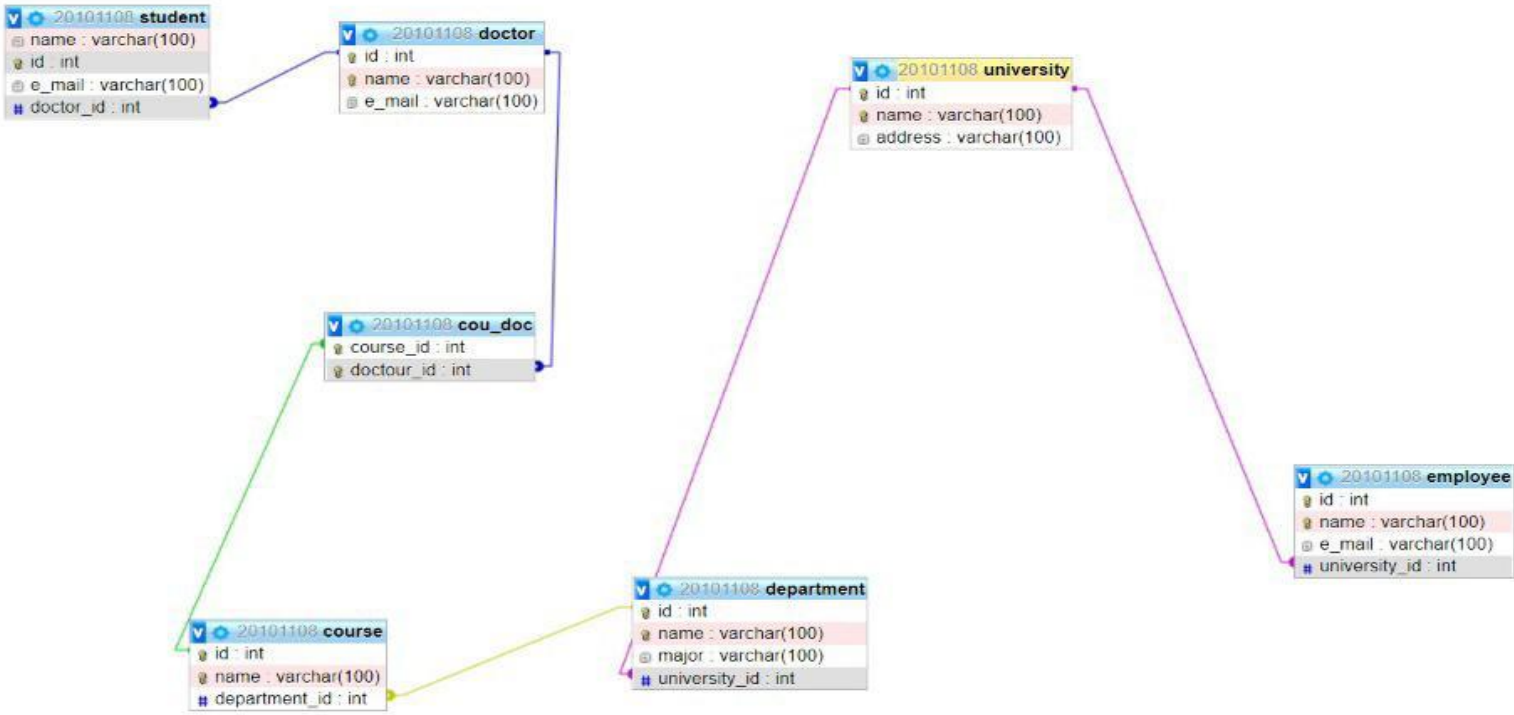
20101108 student
name : varchar(100)
id : int
e_mail : varchar(100)
doctor_id : int
20101108 doctor
id : int
name : varchar(100)
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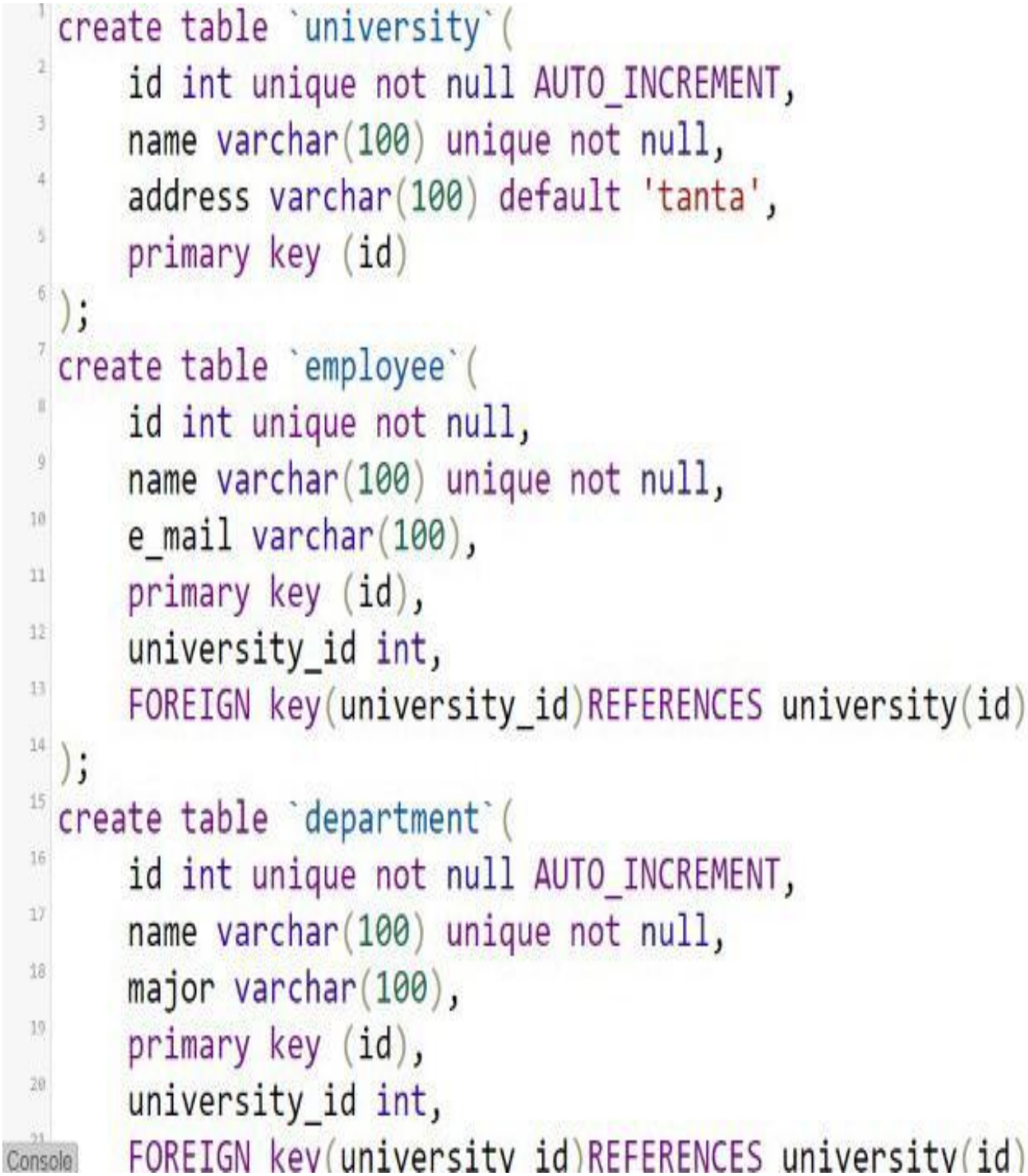
20101108 university
id : int
name : varchar(100)
address : varchar(100)
20101108 cou_doc
course_id : int
doctour_id : int
20101108 employee
id : int
name : varchar(100)
e_mail : varchar(100)
university_id : int
20101108 course
id : int
name : varchar(100)
department_id : int
20101108 department
id : int
name : varchar(100)
major : varchar(100)
university_id : int



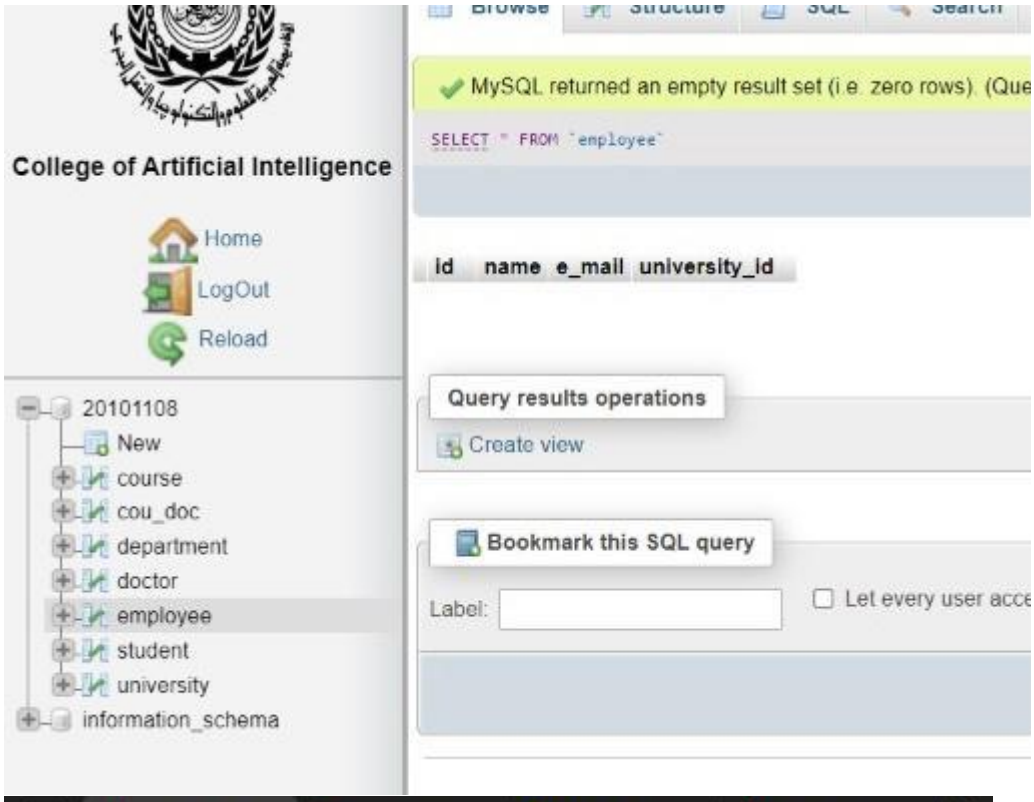
```sql
create table `university`(
    id int unique not null AUTO_INCREMENT,
    name varchar(100) unique not null,
    address varchar(100) default 'tanta',
    primary key (id)
);
create table `employee`(
    id int unique not null,
    name varchar(100) unique not null,
    e_mail varchar(100),
    primary key (id),
    university_id int,
    FOREIGN key(university_id)REFERENCES university(id)
);
create table `department`(
    id int unique not null AUTO_INCREMENT,
    name varchar(100) unique not null,
    major varchar(100),
    primary key (id),
    university_id int,
    FOREIGN key(university_id)REFERENCES university(id)
```


ARD many employee can work in one university, but the university has more than one university employee, there is more than one department, but the department has many course and the course have a lot of doctor explaining and the doctor explains many course and the doctor teaches many students, but the students are one doctor studying him

```
);
create table `course`(
    id int unique not null AUTO_INCREMENT,
    name varchar(100)unique not null,
    primary key (id),
    department_id int,
    FOREIGN key(department_id)REFERENCES department(id)
);

create table `doctor`(
    id int unique not null,
    name varchar(100) unique not null,
    e_mail varchar(100),
    primary key (id)
);

create table `cou_doc`(
    course_id int,
    doctour_id int,
    primary key (course_id,doctour_id),
    FOREIGN key(course_id)REFERENCES course(id),
```

Console

```
);
create table `student`(
    name varchar (100),
    id int ,
    e_mail varchar (100),
    primary key (id),
    doctor_id int,
    FOREIGN key(doctor_id)REFERENCES doctor(id)
);

```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SELECT * FROM `employee`
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Create view
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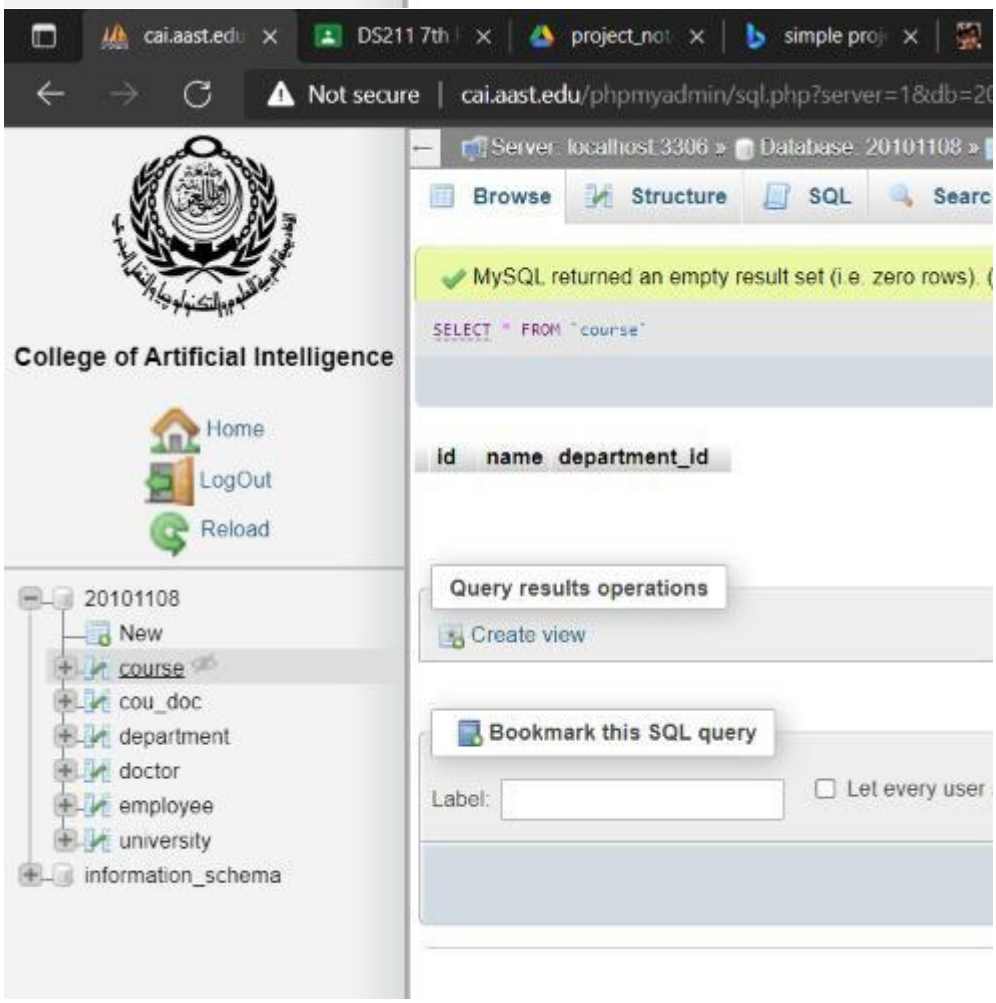
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SELECT * FROM `course`
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Bookmark this SQL query
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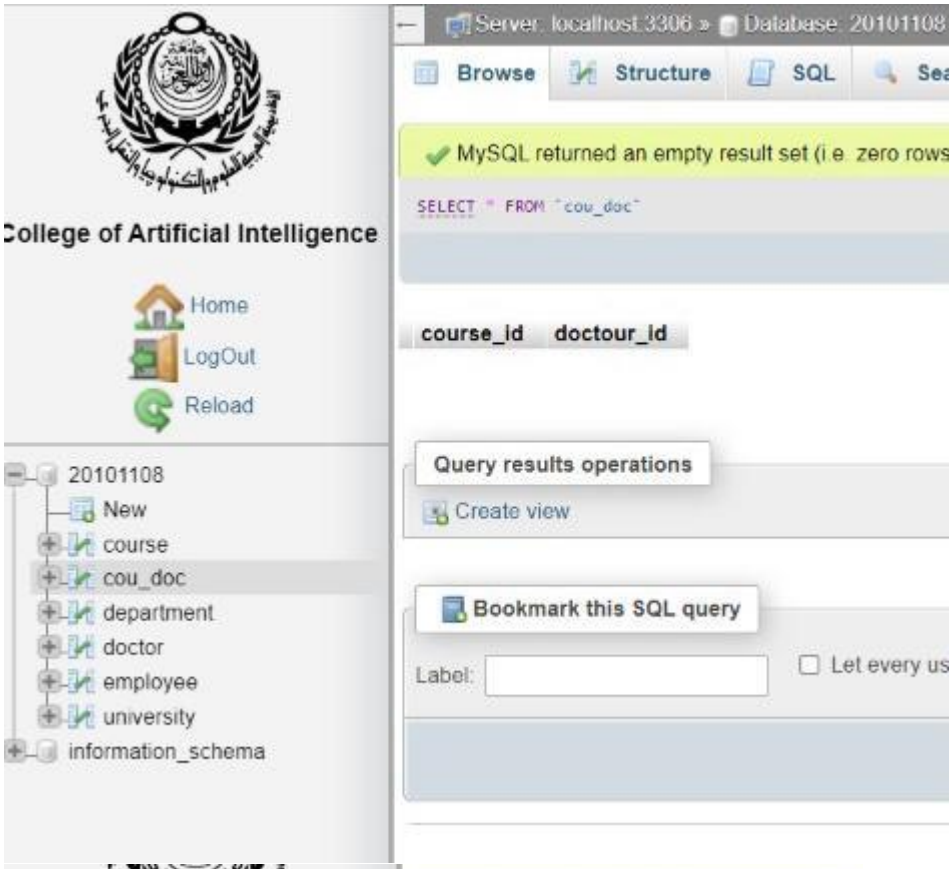
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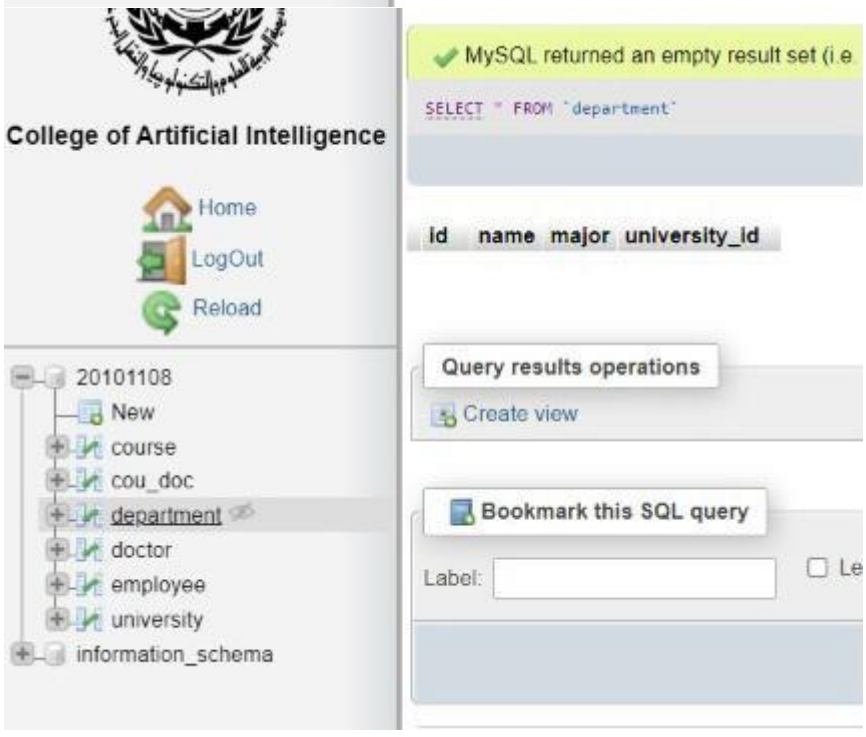
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SELECT * FROM `department`
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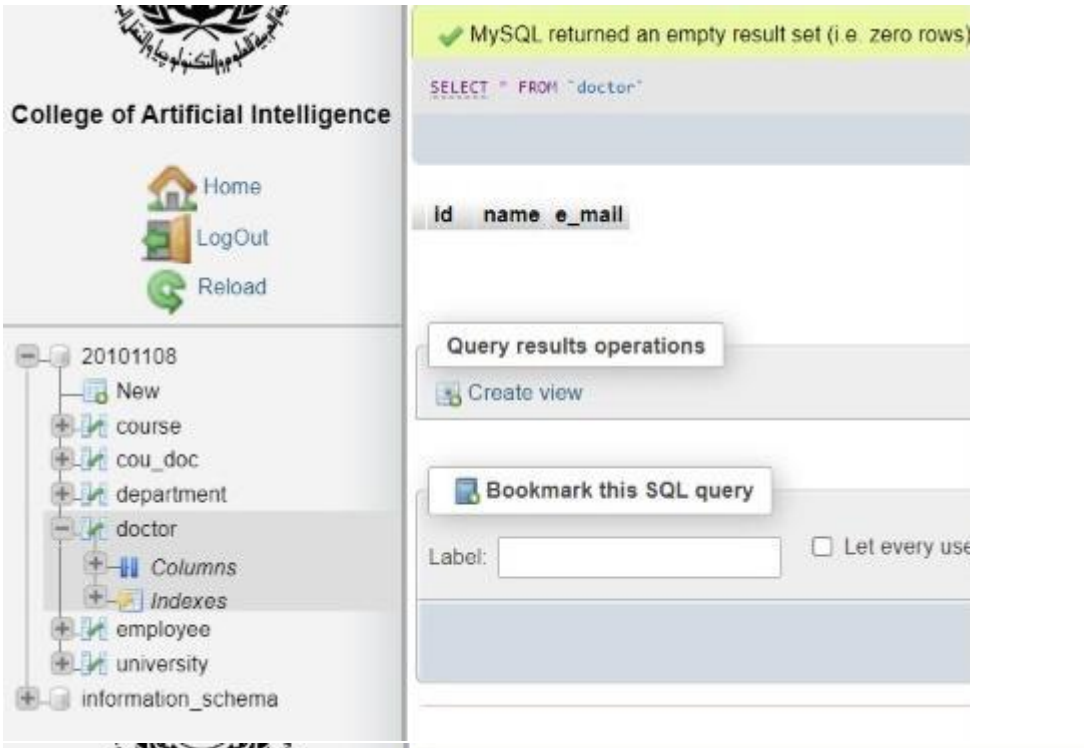
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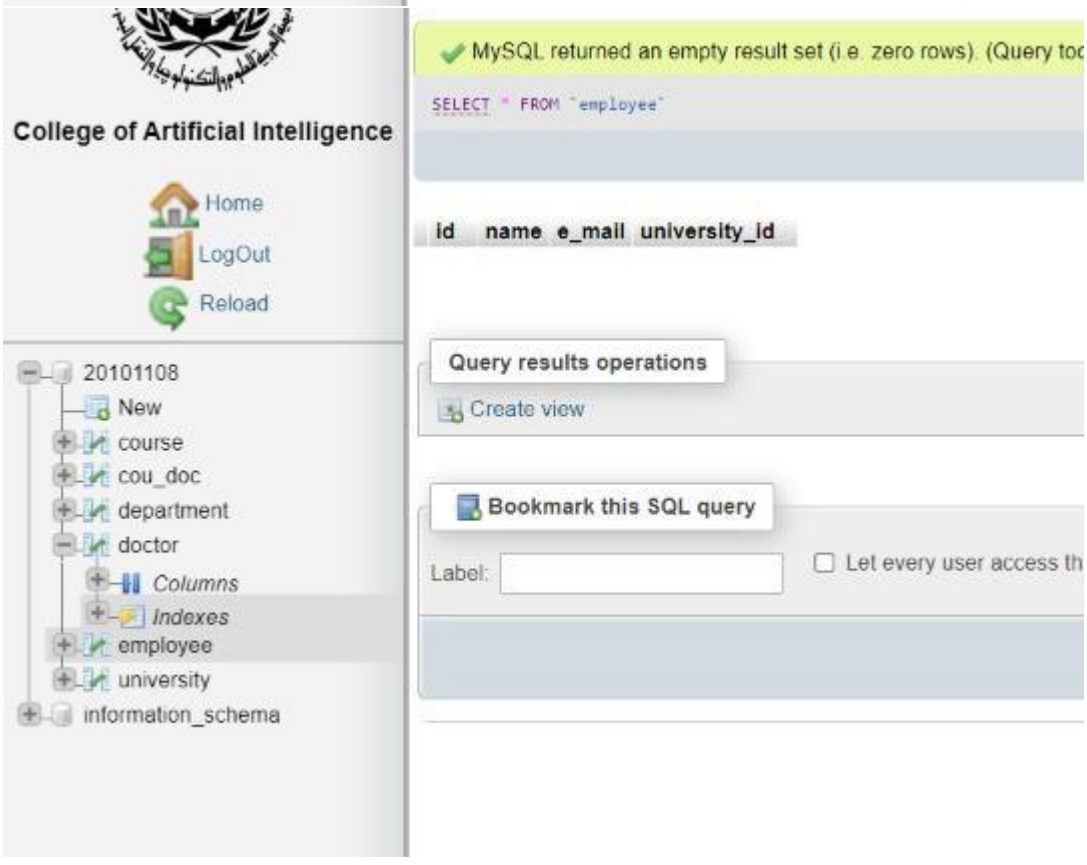
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Query results operations
Create view
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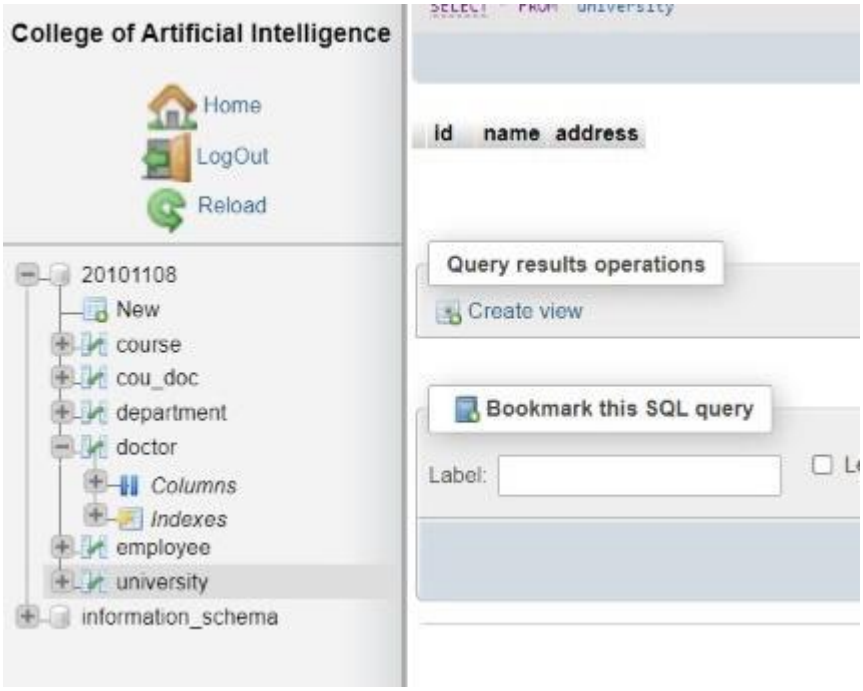
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course
cou_doc
department
doctor
Columns
Indexes
employee
university
information_schema
SELECT * FROM university
id name address
Query results operations
Create view
Bookmark this SQL query
Label:

CODE

```
create table `university`(
    id int unique not null AUTO_INCREMENT,
    name varchar(100) unique not null,
    address varchar(100) default 'tanta',
    primary key (id)
);

create table `employee`(
    id int unique not null,
    name varchar(100) unique not null,
    e_mail varchar(100),
    primary key (id),
    university_id int,
    FOREIGN key(university_id)REFERENCES university(id)
);

create table `department`(
    id int unique not null AUTO_INCREMENT,
    name varchar(100) unique not null,
    major varchar(100),
    primary key (id),
    university_id int,
    FOREIGN key(university_id)REFERENCES university(id)
```

```
);
create table `course`(
    id int unique not null AUTO_INCREMENT,
    name varchar(100)unique not null,
    primary key (id),
    department_id int,
    FOREIGN key(department_id)REFERENCES department(id)
);

create table `doctor`(
    id int unique not null,
    name varchar(100) unique not null,
    e_mail varchar(100),
    primary key (id)
);

create table `cou_doc`(
    course_id int,
    doctour_id int,
    primary key (course_id,doctour_id),
    FOREIGN key(course_id)REFERENCES course(id),
    FOREIGN key(doctour_id)REFERENCES doctor(id)

);
create table `student`(
```

```
    name varchar (100),
    id int ,
    e_mail varchar (100),
    primary key (id),
    doctor_id int,
    FOREIGN key(doctor_id)REFERENCES doctor(id)
);
```

universtiy

```
INSERT INTO `university`(`name`, `address`) VALUES
('aast','alamien');
INSERT INTO `university`(`name`, `address`) VALUES ('aus','cairo');
INSERT INTO `university`(`name`) VALUES ('Alsalem');

INSERT INTO `university`(`name`, `address`) VALUES ('MTI','cairo');
INSERT INTO `university`(`name`, `address`) VALUES ('alex','alex');
```

EMPlOYEE

```
INSERT INTO `employee`(`id`, `name`, `e_mail`, `university_id`) VALUES
(111,'yousef','yousef@gmail.com',1);
INSERT INTO `employee`(`id`, `name`, `e_mail`, `university_id`) VALUES
(222,'ahmad','ahmad@gmail.com',1);
INSERT INTO `employee`(`id`, `name`, `e_mail`, `university_id`) VALUES
(333,'ali','ali@gmail.com',2);
```

INSERT INTO `employee`(`id`, `name`, `e_mail`, `university_id`) VALUES (444,'joo','joo@gmail.com',2);

INSERT INTO `employee`(`id`, `name`, `e_mail`, `university_id`) VALUES (555,'omar','omar@gmail.com',2);

department

INSERT INTO `department`(`id`, `name`, `major`, `university_id`) VALUES (122,'cs','cs',1);

INSERT INTO `department`(`id`, `name`, `major`, `university_id`) VALUES (222,'eng','machanical',2);

INSERT INTO `department`(`id`, `name`, `major`, `university_id`) VALUES (322,'medicine','beautifying',2);

INSERT INTO `department`(`id`, `name`, `major`, `university_id`) VALUES (422,'AI','robotcs',3);

INSERT INTO `department`(`id`, `name`, `major`, `university_id`) VALUES (522,'dent','surgery',5);

---

cou_doc

```
INSERT INTO `cou_doc`(`course_id`, `doctour_id`) VALUES (133,133);

INSERT INTO `cou_doc`(`course_id`, `doctour_id`) VALUES (233,233);

INSERT INTO `cou_doc`(`course_id`, `doctour_id`) VALUES (333,333);

INSERT INTO `cou_doc`(`course_id`, `doctour_id`) VALUES (433,433);

INSERT INTO `cou_doc`(`course_id`, `doctour_id`) VALUES (533,533);
```

course

```
INSERT INTO `course`(`id`, `name`, `department_id`) VALUES (133,'DATABASE',422);

INSERT INTO `course`(`id`, `name`, `department_id`) VALUES (233,'problem solving',122);

INSERT INTO `course`(`id`, `name`, `department_id`) VALUES (333,'physics',222);
```

```
INSERT INTO `course`(`id`, `name`, `department_id`) VALUES
(433,'english',422);

INSERT INTO `course`(`id`, `name`, `department_id`) VALUES
(533,'surgery',522)-

------------------------------------------------------------
------------------------------------------------------------
```

doctor

```
INSERT INTO `doctor`(`id`, `name`, `e_mail`) VALUES
(133,'Hesham','dr.Hesham@gmail.com');

INSERT INTO `doctor`(`id`, `name`, `e_mail`) VALUES
(233,'Nagy','Eng.Nagy@gmail.com');

INSERT INTO `doctor`(`id`, `name`, `e_mail`) VALUES
(333,'Osama','Eng.Osama@gmail.com');

INSERT INTO `doctor`(`id`, `name`, `e_mail`) VALUES
(433,'Mahmoud','Eng.Mahmoud@gmail.com');

INSERT INTO `doctor`(`id`, `name`, `e_mail`) VALUES
(533,'Magrash','Eng.Magrash@gmail.com')


------------------------------------------------------------
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----
```
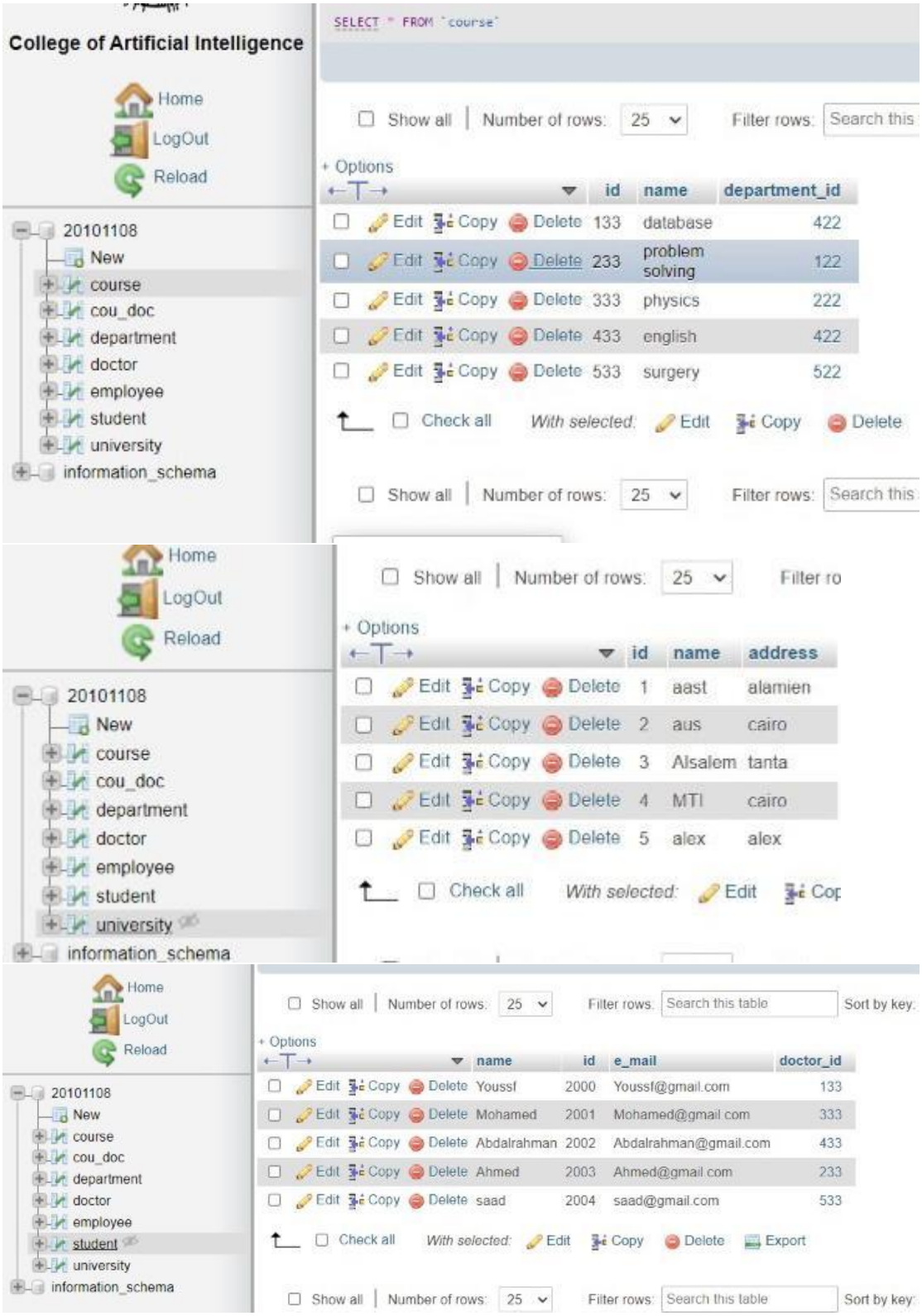

student

```
INSERT INTO `student`(`name`, `id`, `e_mail`, `doctor_id`)

 ('Yousf',2000,'Yousf@gmail.com',133);

INSERT INTO `student`(`name`, `id`, `e_mail`, `doctor_id`)
VALUES ('Ahmed',2003,'Ahmed@gmail.com',233);

INSERT INTO `student`(`name`, `id`, `e_mail`, `doctor_id`)
VALUES ('Mohamed',2001,'Mohamed@gmail.com',333);

INSERT INTO `student`(`name`, `id`, `e_mail`, `doctor_id`)
VALUES ('Abdalrahman',2002,'Abdalrahman@gmail.com',433);

INSERT INTO `student`(`name`, `id`, `e_mail`, `doctor_id`)
VALUES ('saad',2004,'saad@gmail.com',533)
```


College of Artificial Intelligence
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SELECT * FROM `course`
Show all | Number of rows: 25 Filter rows: Search this
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id name department_id
Edit Copy Delete 133 database 422
Edit Copy Delete 233 problem solving 122
Edit Copy Delete 333 physics 222
Edit Copy Delete 433 english 422
Edit Copy Delete 533 surgery 522
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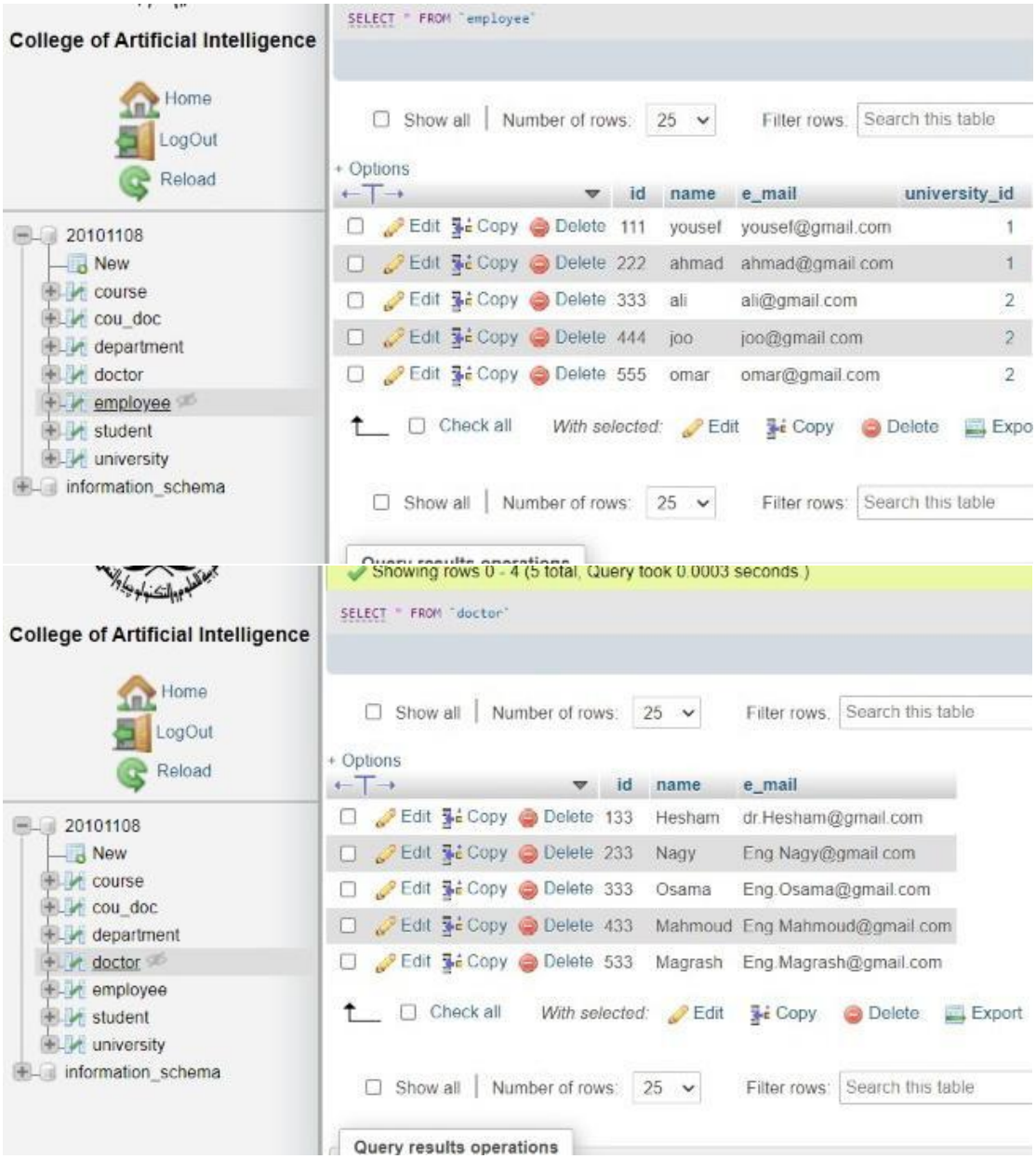
Options
name id e_mail doctor_id
Edit Copy Delete Youssf 2000 Youssf@gmail.com 133
Edit Copy Delete Mohamed 2001 Mohamed@gmail.com 333
Edit Copy Delete Abdalrahman 2002 Abdalrahman@gmail.com 433
Edit Copy Delete Ahmed 2003 Ahmed@gmail.com 233
Edit Copy Delete saad 2004 saad@gmail.com 533
Check all With selected: Edit Copy Delete Export
Show all | Number of rows: 25 Filter rows: Search this table Sort by key:


College of Artificial Intelligence
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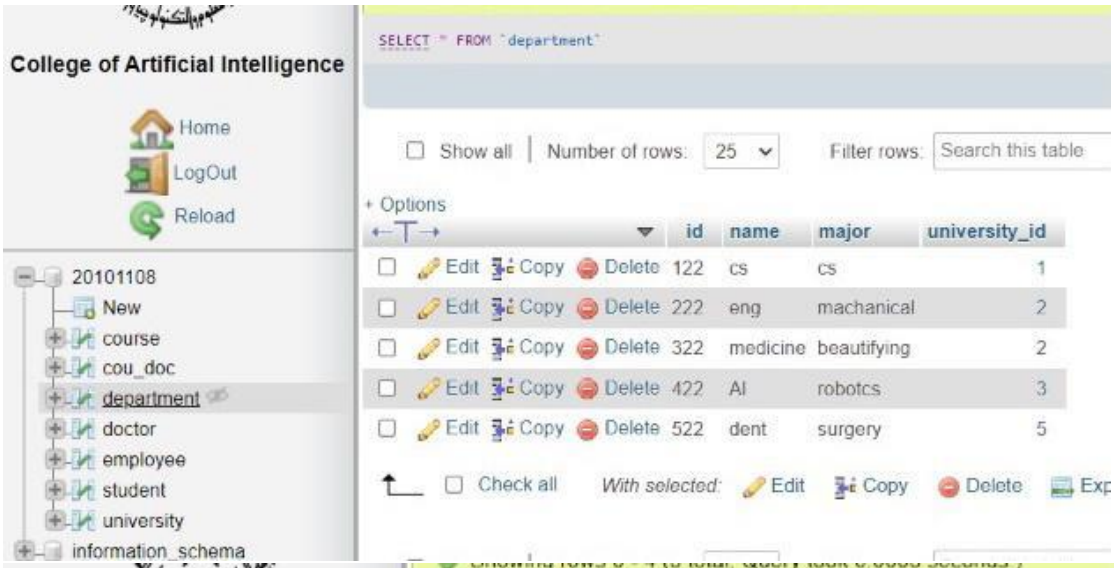
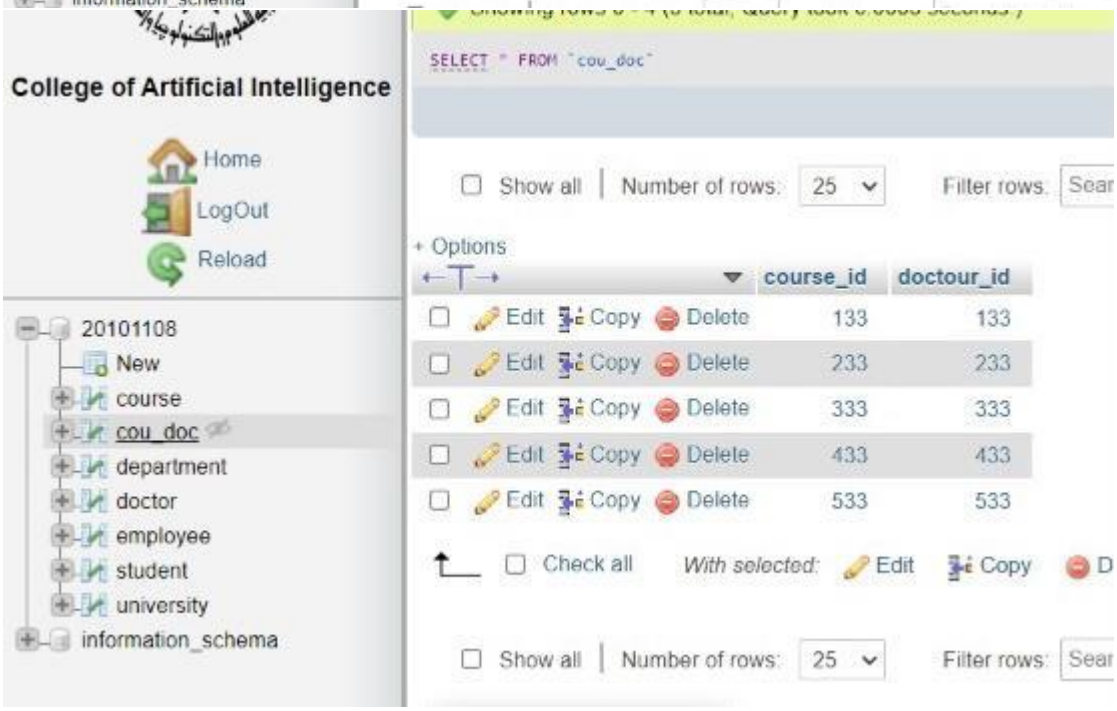
information_schema
SELECT * FROM `employee`
Show all | Number of rows: 25 Filter rows: Search this table
+ Options
id name e_mail university_id
Edit Copy Delete 111 yousef yousef@gmail.com 1
Edit Copy Delete 222 ahmad ahmad@gmail.com 1
Edit Copy Delete 333 ali ali@gmail.com 2
Edit Copy Delete 444 joo joo@gmail.com 2
Edit Copy Delete 555 omar omar@gmail.com 2
Check all With selected: Edit Copy Delete Expo
Show all | Number of rows: 25 Filter rows: Search this table
Showing rows 0 - 4 (5 total, Query took 0.0003 seconds.)
SELECT * FROM `doctor`
Show all | Number of rows: 25 Filter rows: Search this table
+ Options
id name e_mail
Edit Copy Delete 133 Hesham dr.Hesham@gmail.com
Edit Copy Delete 233 Nagy Eng.Nagy@gmail.com
Edit Copy Delete 333 Osama Eng.Osama@gmail.com
Edit Copy Delete 433 Mahmoud Eng.Mahmoud@gmail.com
Edit Copy Delete 533 Magrash Eng.Magrash@gmail.com
Check all With selected: Edit Copy Delete Export
Show all | Number of rows: 25 Filter rows: Search this table
Query results operations






```
UPDATE `student` SET `name`='ali' WHERE id=2001
```

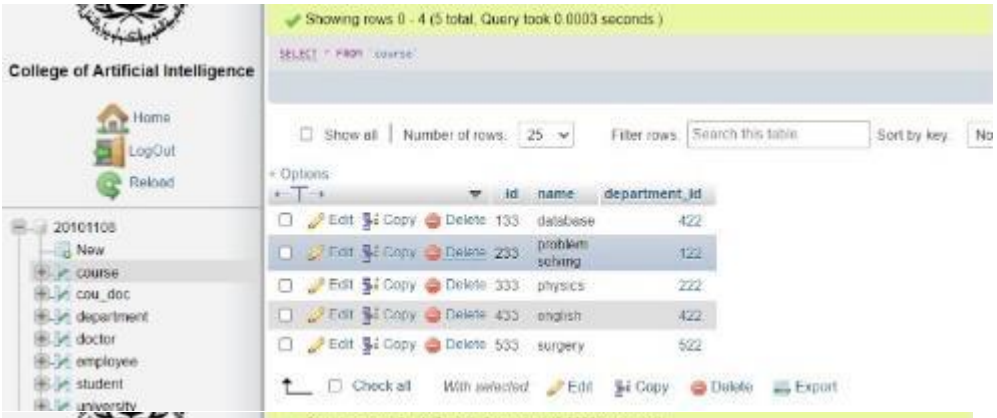
```
UPDATE `employee` SET `name`='mohamed' WHERE id=333
```

```
UPDATE `doctor` SET `name`='osama' WHERE id=333
```

```
UPDATE `department` SET `university_id`=3 WHERE id=322
```

```
UPDATE `course` SET `name`='esp' WHERE id=422
```

```
UPDATE `university` SET`address`='cairo' WHERE id=2
```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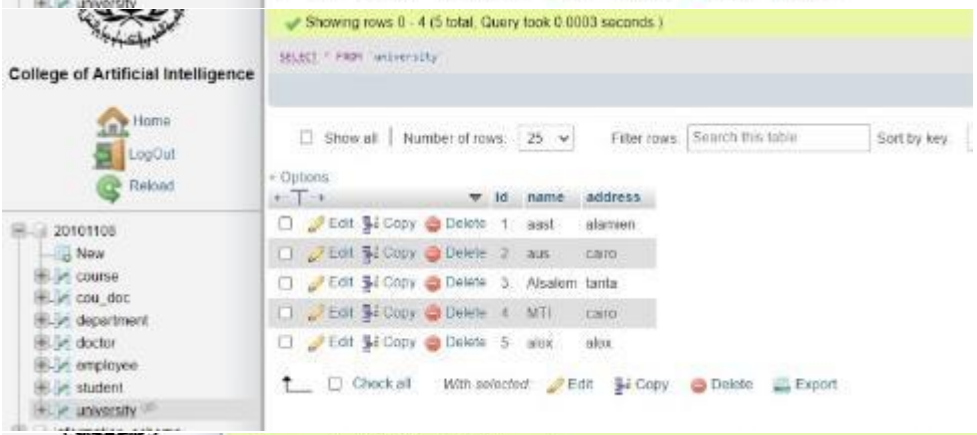
Showing rows 0 - 4 (5 total, Query took 0.0003 seconds.)
SELECT * FROM `course`
Show all | Number of rows: 25 Filter rows: Search this table Sort by key: No
Options
id name department_id
Edit Copy Delete 133 database 422
Edit Copy Delete 233 problem schimg 122
Edit Copy Delete 333 physics 222
Edit Copy Delete 433 english 422
Edit Copy Delete 533 surgery 522
Check all With selected: Edit Copy Delete Export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SELECT * FROM `university`
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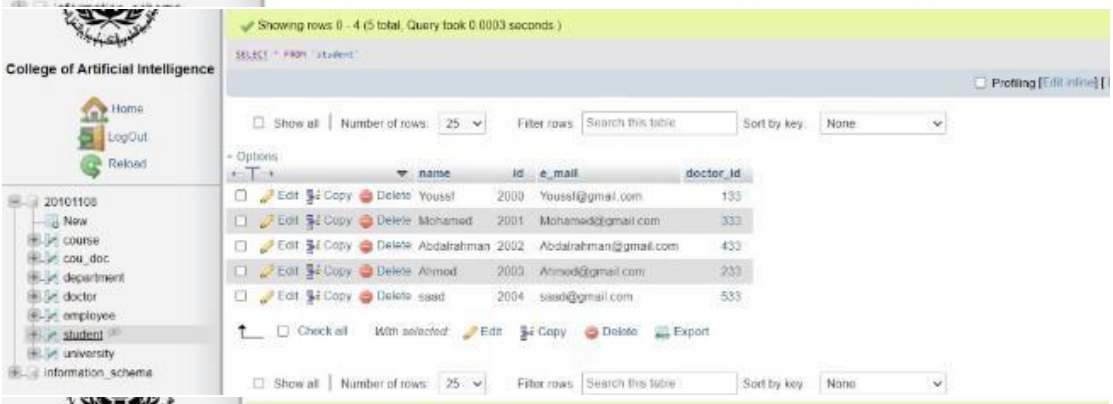
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university
information_schema
Showing rows 0 - 4 (5 total, Query took 0.0003 seconds.)
SELECT * FROM `student`
Profiling [Edit inline]
Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None
Options
name id e_mail doctor_id
Edit Copy Delete Youssf 2000 Youssf@gmail.com 133
Edit Copy Delete Mohamed 2001 Mohamed@gmail.com 333
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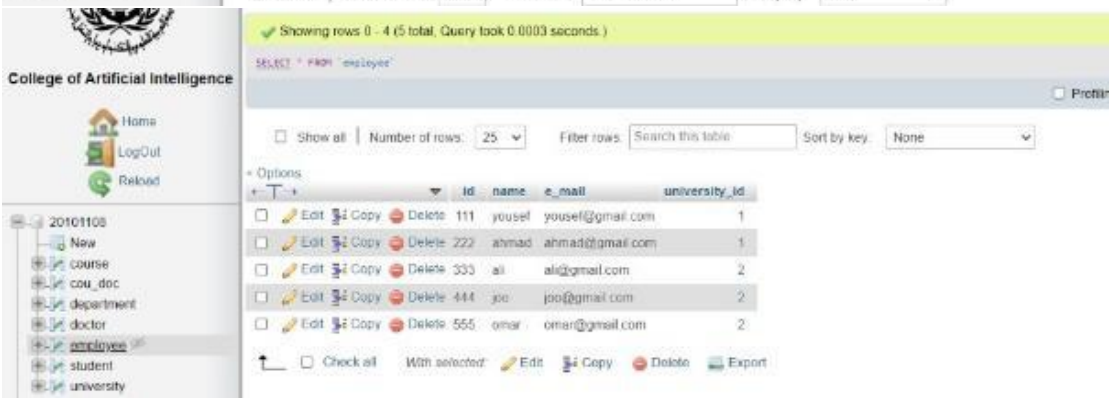
Check all With selected: Edit Copy Delete Export
Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None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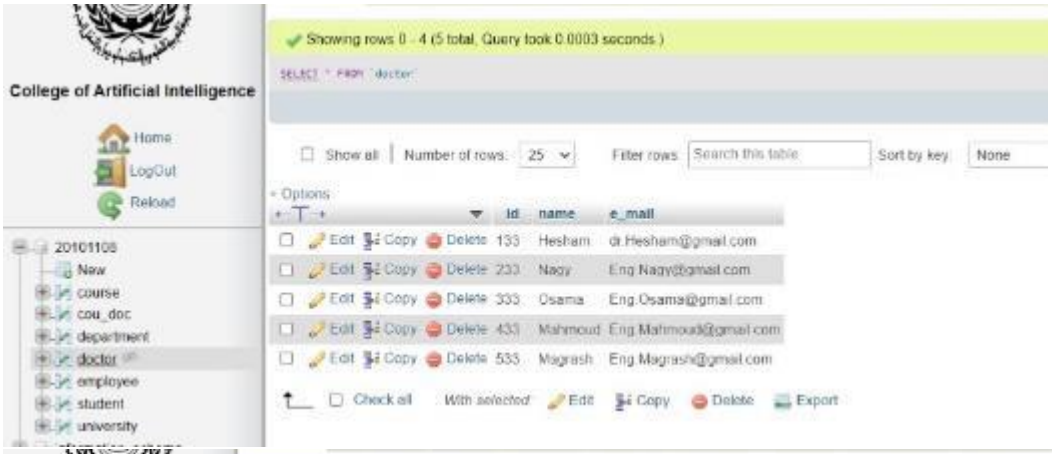
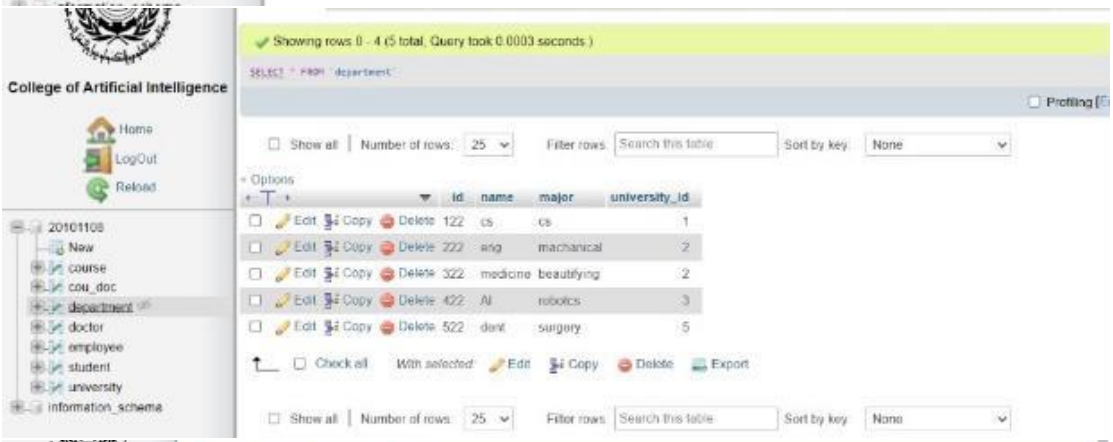
SELECT * FROM `employee`
Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None
Options
id name e_mail university_id
Edit Copy Delete 111 yousef yousef@gmail.com 1
Edit Copy Delete 222 ahmad ahmad@gmail.com 1
Edit Copy Delete 333 ali ali@gmail.com 2
Edit Copy Delete 444 joo joo@gmail.com 2
Edit Copy Delete 555 omar omar@gmail.com 2
Check all With selected: Edit Copy Delete Export





```
DELETE FROM `student` WHERE id=2001
```

```
DELETE FROM `doctor` WHERE id=333
```

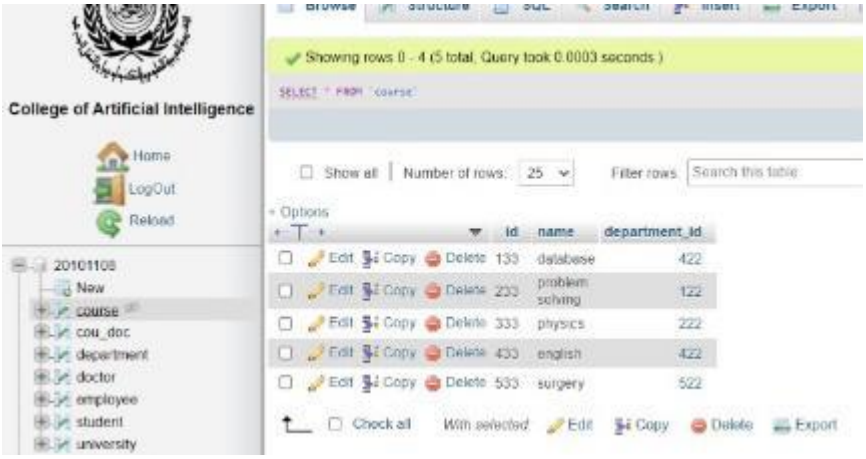
```
-------------------------------------------------------------
-------------------------
```

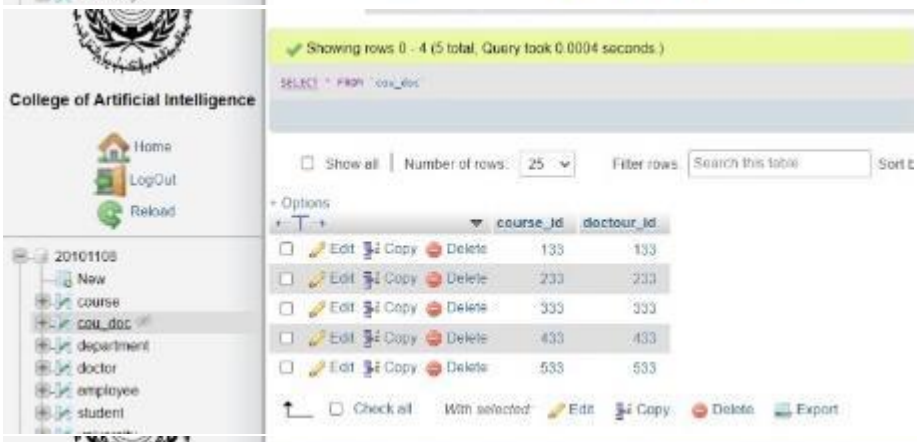
```
DELETE FROM `cou_doc` WHERE course_id=133 and doctour_id =133
```

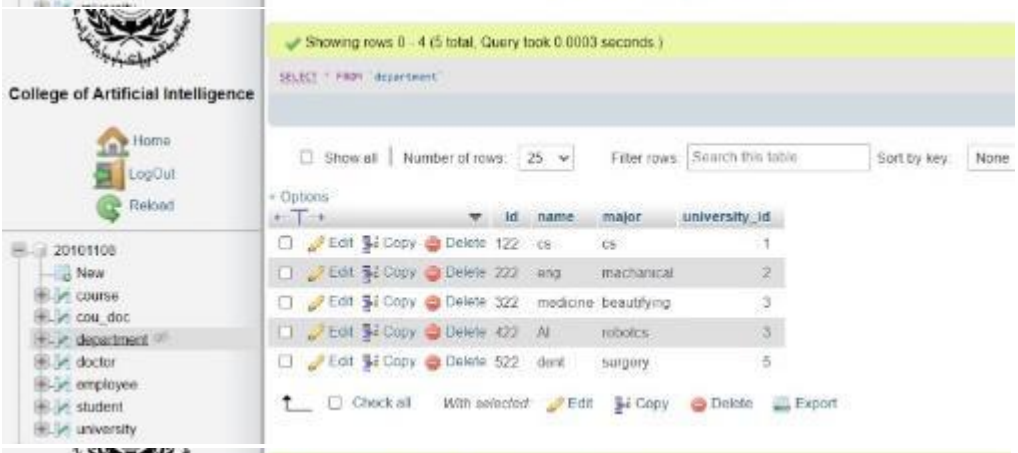
```
DELETE FROM `course` WHERE id =133
```

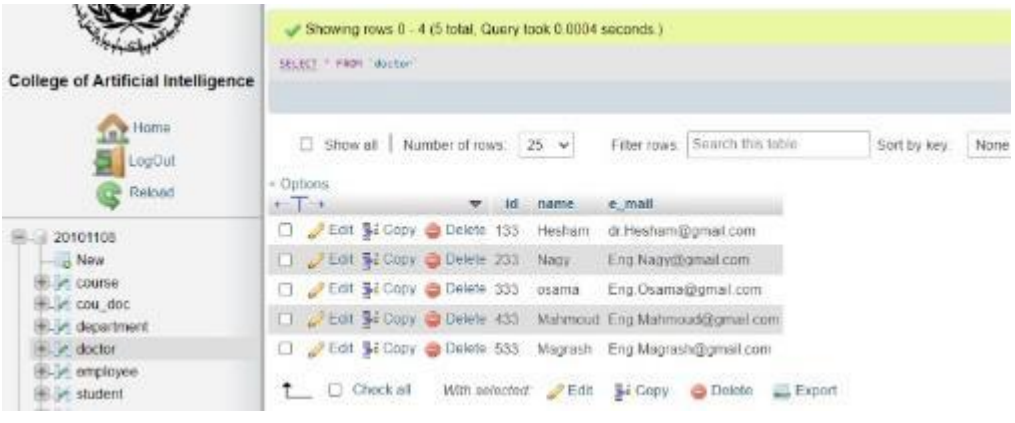
```
-------------------------------------------------------------
-----------------------
```

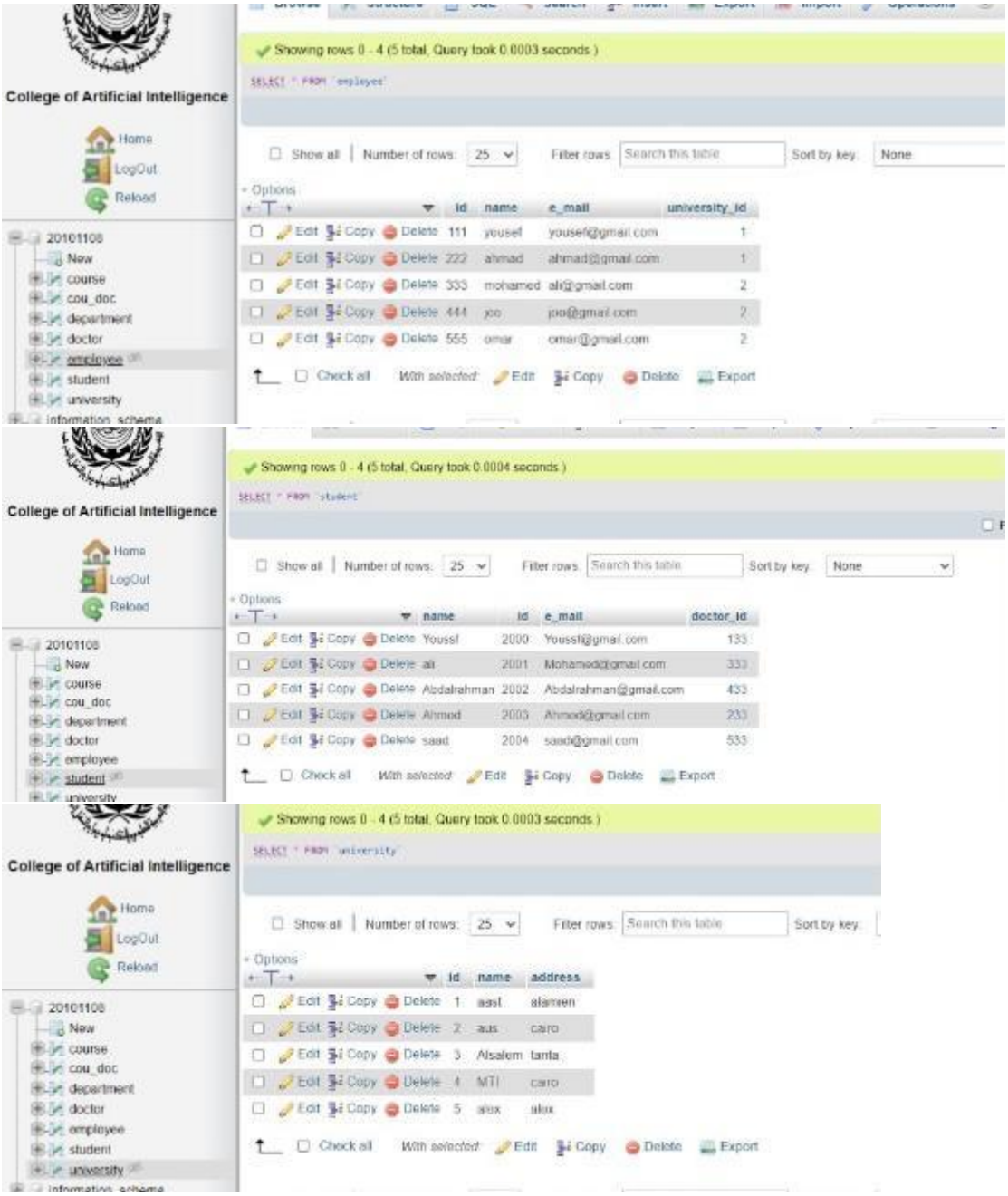
```
DELETE FROM `employee` WHERE id = 111
```


College of Artificial Intelligence
Home
LogOut
Reload
20101108
New
course
cou_doc
department
doctor
employee
student
university
Showing rows 0 - 4 (5 total, Query took 0.0003 seconds.)
SELECT * FROM `course`
Show all | Number of rows: 25 Filter rows: Search this table
Options
id name department_id
Edit Copy Delete 133 database 422
Edit Copy Delete 233 problem solving 122
Edit Copy Delete 333 physics 222
Edit Copy Delete 433 english 422
Edit Copy Delete 533 surgery 522
Check all With selected: Edit Copy Delete Export


College of Artificial Intelligence
Home
LogOut
Reload
20101108
New
course
cou_doc
department
doctor
employee
student
Showing rows 0 - 4 (5 total, Query took 0.0004 seconds.)
SELECT * FROM `cou_doc`
Show all | Number of rows: 25 Filter rows: Search this table
Options
course_id doctour_id
Edit Copy Delete 133 133
Edit Copy Delete 233 233
Edit Copy Delete 333 333
Edit Copy Delete 433 433
Edit Copy Delete 533 533
Check all With selected: Edit Copy Delete Export


College of Artificial Intelligence
Home
LogOut
Reload
20101108
New
course
cou_doc
department
doctor
employee
student
university
Showing rows 0 - 4 (5 total, Query took 0.0003 seconds.)
SELECT * FROM `department`
Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None
Options
id name major university_id
Edit Copy Delete 122 cs cs 1
Edit Copy Delete 222 eng mechanical 2
Edit Copy Delete 322 medicine beautifying 3
Edit Copy Delete 422 AI robotics 3
Edit Copy Delete 522 dent surgery 5
Check all With selected: Edit Copy Delete Export


College of Artificial Intelligence
Home
LogOut
Reload
20101108
New
course
cou_doc
department
doctor
employee
student
Showing rows 0 - 4 (5 total, Query took 0.0004 seconds.)
SELECT * FROM `doctor`
Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None
Options
id name e_mail
Edit Copy Delete 133 Hesham dr.Hesham@gmail.com
Edit Copy Delete 233 Nagy Eng.Nagy@gmail.com
Edit Copy Delete 333 osama Eng.Osama@gmail.com
Edit Copy Delete 433 Mahmoud Eng.Mahmoud@gmail.com
Edit Copy Delete 533 Magrash Eng.Magrash@gmail.com
Check all With selected: Edit Copy Delete Export




```
DELETE FROM `employee` WHERE id = 222
```

```
SELECT * FROM `department` WHERE id =122
```

```
SELECT * FROM `department` WHER
```

```
SELECT * FROM `course` WHERE ID=233
```

```
SELECT `course_id`, `doctour_id` FROM `cou_doc` WHERE
`course_id`=133 AND`doctour_id`=133;
```

```
SELECT `id`, `name`, `major`, `university_id` FROM
`department` WHERE ID=122
```

```
SELECT `id`, `name`, `e_mail` FROM `doctor` WHERE ID= 233
```

```
SELECT * FROM `employee` WHERE ID =444
```

```
SELECT
    emp.id as employee_id,
    emp.name as employee_name,
    uni.name as university_name,
    uni.address as university_address
from
     `employee` emp,
    `university` uni
WHERE
     emp.university_id = uni.id;
```

```sql
INSERT INTO `cou_doc`(`course_id`, `doctour_id`) VALUES
(133,133);
INSERT INTO `cou_doc`(`course_id`, `doctour_id`) VALUES
(233,233);
INSERT INTO `cou_doc`(`course_id`, `doctour_id`) VALUES
(333,333);
INSERT INTO `cou_doc`(`course_id`, `doctour_id`) VALUES
(433,433);
INSERT INTO `cou_doc`(`course_id`, `doctour_id`) VALUES
(533,533);
```

```sql
INSERT INTO `student`(`name`, `id`, `e_mail`, `doctor_id`)
VALUES ('Yousf',2000,'Yousf@gmail.com',133);
INSERT INTO `student`(`name`, `id`, `e_mail`, `doctor_id`)
VALUES ('Ahmed',2003,'Ahmed@gmail.com',233);
INSERT INTO `student`(`name`, `id`, `e_mail`, `doctor_id`)
VALUES ('Mohamed',2001,'Mohamed@gmail.com',333);
INSERT INTO `student`(`name`, `id`, `e_mail`, `doctor_id`)
VALUES ('Abdalrahman',2002,'Abdalrahman@gmail.com',433);
INSERT INTO `student`(`name`, `id`, `e_mail`, `doctor_id`)
VALUES ('saad',2004,'saad@gmail.com',533)
```

```sql
INSERT INTO `doctor`(`id`, `name`, `e_mail`) VALUES
(133,'Hesham','dr.Hesham@gmail.com');
INSERT INTO `doctor`(`id`, `name`, `e_mail`) VALUES
(233,'Nagy','Eng.Nagy@gmail.com');
INSERT INTO `doctor`(`id`, `name`, `e_mail`) VALUES
(333,'Osama','Eng.Osama@gmail.com');
INSERT INTO `doctor`(`id`, `name`, `e_mail`) VALUES
(433,'Mahmoud','Eng.Mahmoud@gmail.com');
INSERT INTO `doctor`(`id`, `name`, `e_mail`) VALUES
(533,'Magrash','Eng.Magrash@gmail.com')
```

```sql
INSERT INTO `course`(`id`, `name`, `department_id`) VALUES
(133,'DATABASE',422);
INSERT INTO `course`(`id`, `name`, `department_id`) VALUES
(233,'problem solving',122);
INSERT INTO `course`(`id`, `name`, `department_id`) VALUES
(333,'physics',222);
INSERT INTO `course`(`id`, `name`, `department_id`) VALUES
(433,'english',422);
INSERT INTO `course`(`id`, `name`, `department_id`) VALUES
(533,'surgery',522)
```

```
INSERT INTO `department`(`id`, `name`, `major`,
`university_id`) VALUES (122,'cs','cs',1);
INSERT INTO `department`(`id`, `name`, `major`,
`university_id`) VALUES (222,'eng','machanical',2);
INSERT INTO `department`(`id`, `name`, `major`,
`university_id`) VALUES (322,'medicine','beautifying',2);
INSERT INTO `department`(`id`, `name`, `major`,
`university_id`) VALUES (422,'AI','robotcs',3);
INSERT INTO `department`(`id`, `name`, `major`,
`university_id`) VALUES (522,'dent','surgery',5);
```

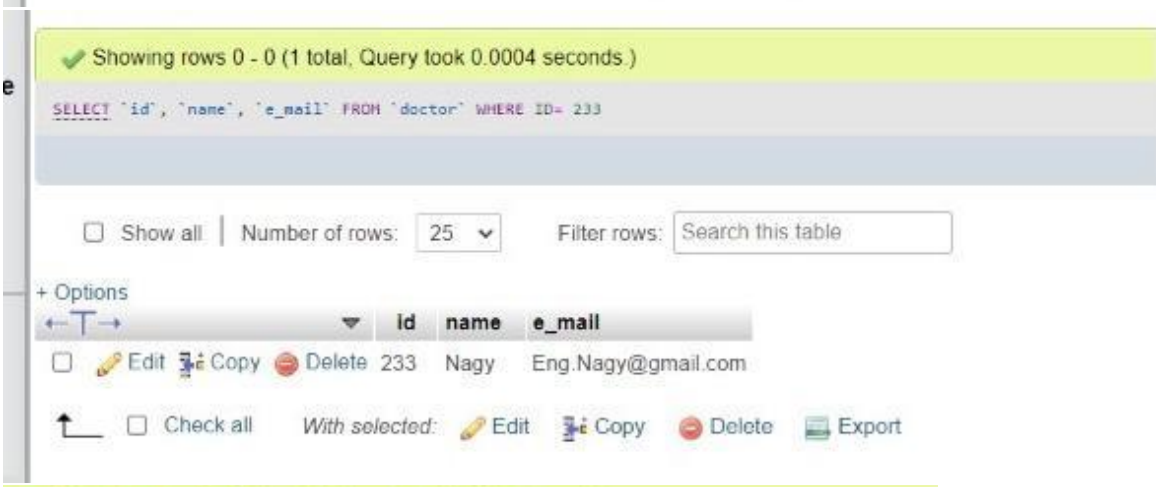
```
INSERT INTO `employee`(`id`, `name`, `e_mail`,
`university_id`) VALUES (111,'yousef','yousef@gmail.com',1)
INSERT INTO `employee`(`id`, `name`, `e_mail`,
`university_id`) VALUES (222,'ahmad','ahmad@gmail.com',1);
INSERT INTO `employee`(`id`, `name`, `e_mail`,
`university_id`) VALUES (333,'ali','ali@gmail.com',2);
INSERT INTO `employee`(`id`, `name`, `e_mail`,
`university_id`) VALUES (444,'joo','joo@gmail.com',2);
INSERT INTO `employee`(`id`, `name`, `e_mail`,
`university_id`) VALUES (555,'omar','omar@gmail.com',2);
```

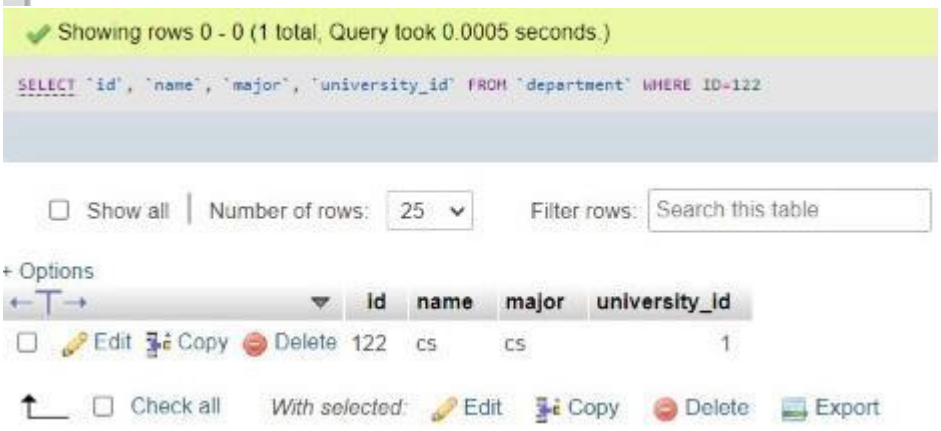
```
INSERT INTO `university`(`name`, `address`) VALUES
('aast','alamien');
INSERT INTO `university`(`name`, `address`) VALUES
('aus','cairo');
INSERT INTO `university`(`name`) VALUES ('Alsalem');

INSERT INTO `university`(`name`, `address`) VALUES
('MTI','cairo');
INSERT INTO `university`(`name`, `address`) VALUES
('alex','alex');
```

Showing rows 0 - 2 (3 total, Query took 0.0010 seconds.)
SELECT emp.id as employee_id, emp.name as employee_name, uni.name as university_name, uni.address as university_address from `employee` emp, `university` uni WHERE emp.university_id = uni.id
Profiling [Edit inline] [Edit] [Explain SQL] [Creat
Show all | Number of rows: 25 Filter rows: Search this table
+ Options
employee_id employee_name university_name university_address
333 mohamed aus cairo
444 joo aus cairo
555 omar aus cairo

Showing rows 0 - 0 (1 total, Query took 0.0004 seconds.)
SELECT * FROM `employee` WHERE ID =444
Show all | Number of rows: 25 Filter rows: Search this table
+ Options
id name e_mail university_id
Edit Copy Delete 444 joo joo@gmail.com 2
Check all With selected: Edit Copy Delete Export


Showing rows 0 - 0 (1 total, Query took 0.0004 seconds.)
SELECT `id`, `name`, `e_mail` FROM `doctor` WHERE ID= 233
Show all | Number of rows: 25 Filter rows: Search this table
+ Options
id name e_mail
Edit Copy Delete 233 Nagy Eng.Nagy@gmail.com
Check all With selected: Edit Copy Delete Export


Showing rows 0 - 0 (1 total, Query took 0.0005 seconds.)
SELECT `id`, `name`, `major`, `university_id` FROM `department` WHERE ID=122
Show all | Number of rows: 25 Filter rows: Search this table
+ Options
id name major university_id
Edit Copy Delete 122 cs cs 1
Check all With selected: Edit Copy Delete Export

Show query box

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

```
SELECT `course_id`, `doctour_id` FROM `cou_doc` WHERE `course_id`=133 AND`doctour_id`=133
```

course_id	doctour_id

Query results operations

Showing rows 0 - 0 (1 total, Query took 0.0004 seconds.)

```
SELECT * FROM `course` WHERE ID=233
```

Show all | Number of rows: 25 Filter rows: Search this table

+ Options

	id	name	department_id
Edit Copy Delete	233	problem solving	122

Check all *With selected:* Edit Copy Delete Export