

Lab 4



Outline

- 1. Download lab4.accdb
- 2. SQL:DELETE, INSERT, UPDATE
- 3. Integrity constraint
- 4. Assignment4
- 5. Assignment3 Review



1. Download lab4.accdb

Download the following data files from WeChat group files

The database of lab4 is same as lab2.accdb

• 👪 lab2.accdb

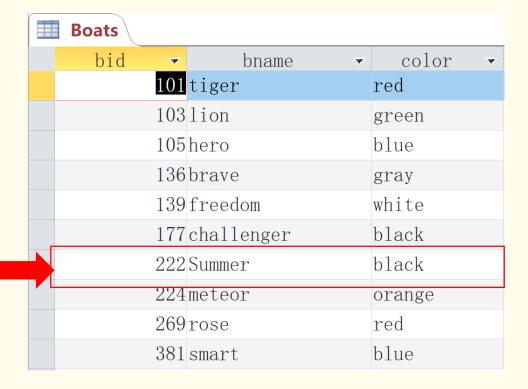
- Boats.txt
- Reserves.txt
 - Sailors.txt



2.1 SQL: INSERT

INSERT INTO Boats values(222, 'Summer', 'black');

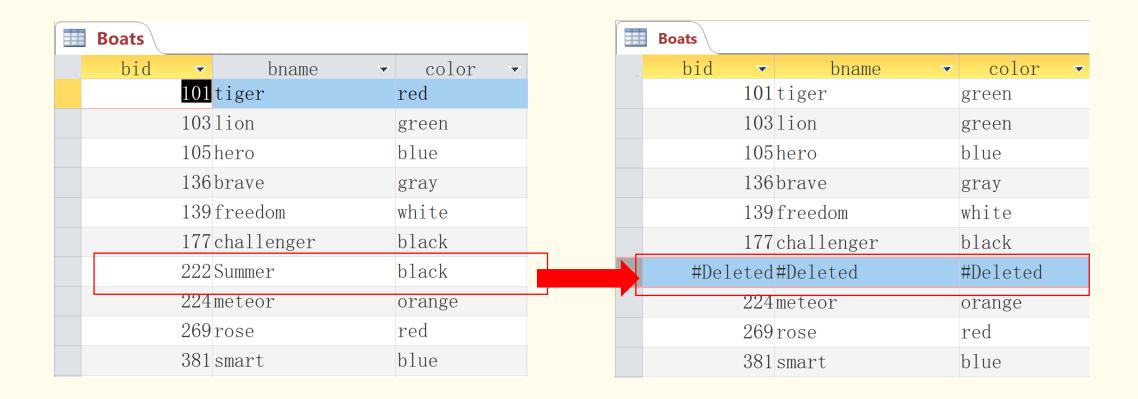
	Boats		
£	bid <u></u> ▼	bname 🔻	color •
	101	tiger	red
	103	3lion	green
	105	hero	blue
	136	brave	gray
	139	freedom	white
	177	challenger	black
	224	meteor	orange
	269	rose	red
	381	smart	blue





2.2 SQL: DELETE

DELETE from Boats where bid = 222;





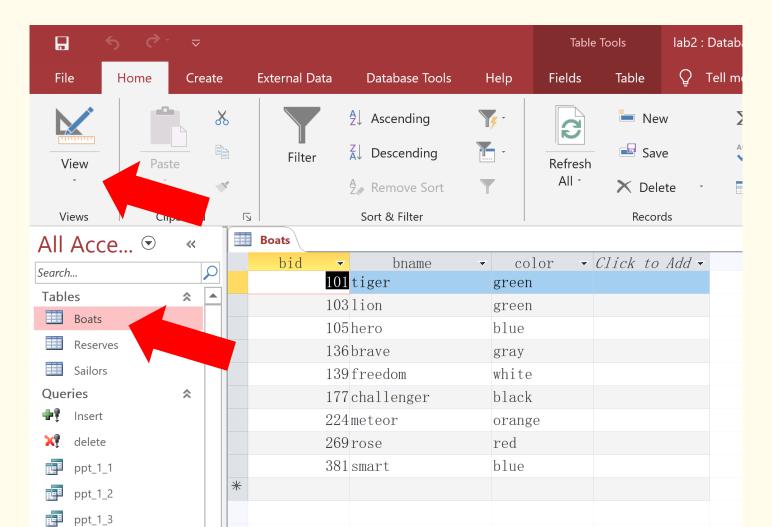
2.3 SQL: UPDATE

UPDATE Boats set color = 'green' where bid = 101;

Boats		
bid	bname	- color -
	101 tiger	red
	103 lion	green
	105 hero	blue
	136 brave	gray
	139 freedom	white
	177 challenger	black
	222 Summer	black
	224 meteor	orange
	269 rose	red
	381 smart	blue

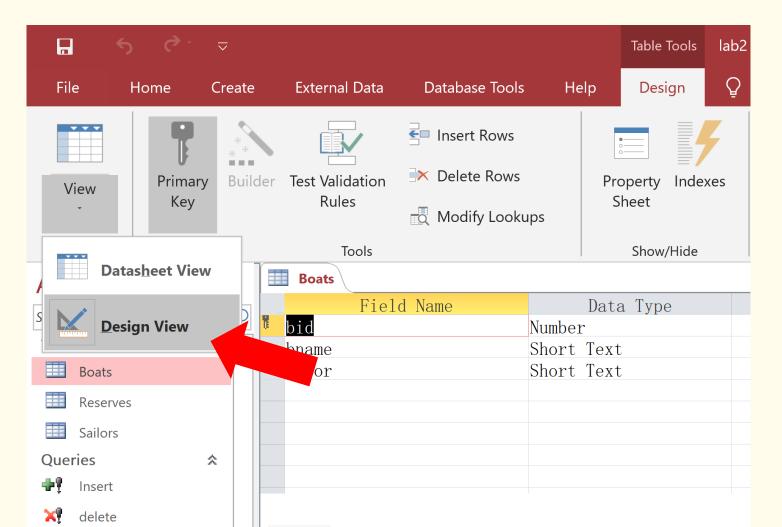


1) Choose Boats and Click Home



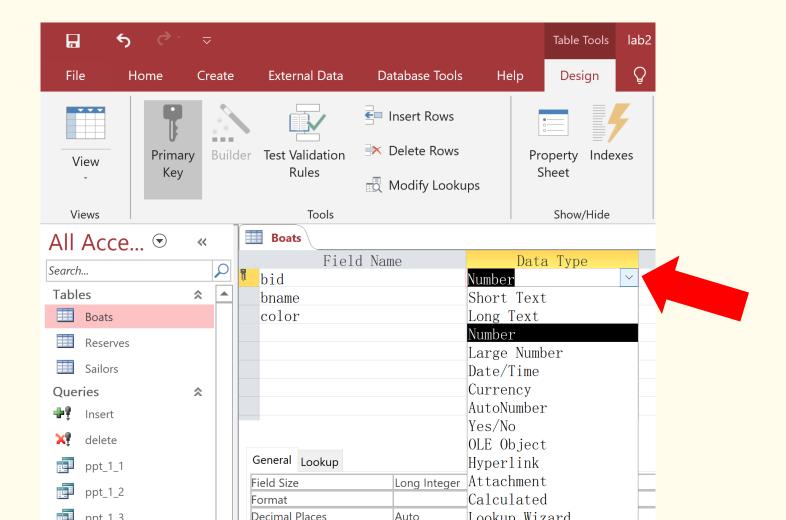


2) Choose Design View





3) Choose Data Type

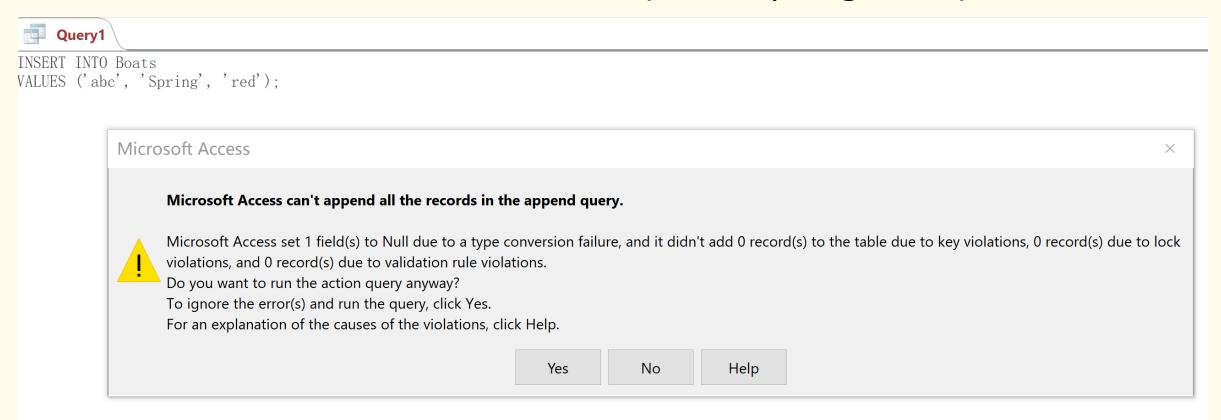


4) Write Validation Rule

General Lookup		
Field Size	Long Integer	
Format		
Decimal Places	Auto	
Input Mask		
Caption		
Default Value		
Validation Rule	[bid]>0	
Validation Text		
Required	Yes	
Indexed	Yes (No Duplicates)	
Text Align	General	

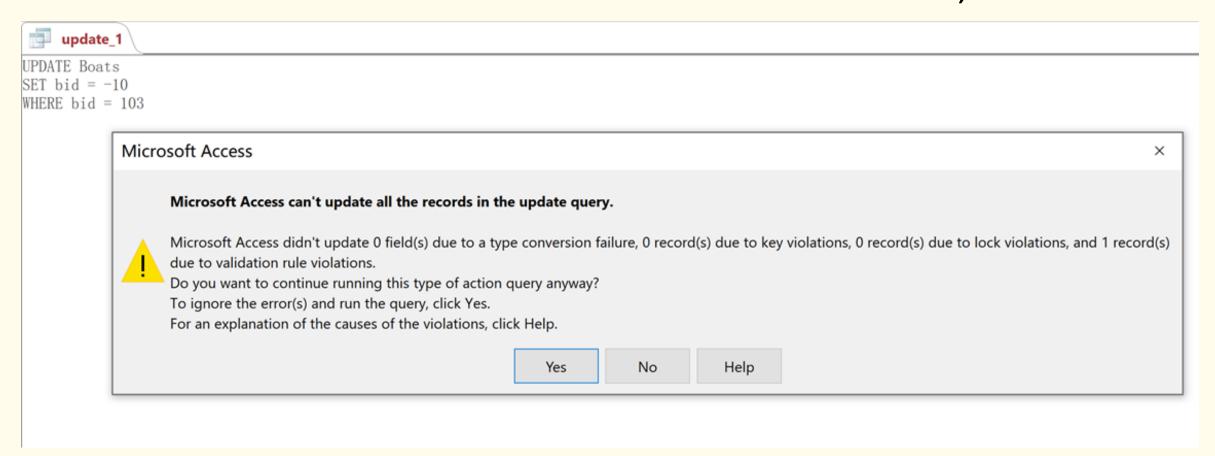


INSERT INTO Boats VALUES('abc','spring','red');





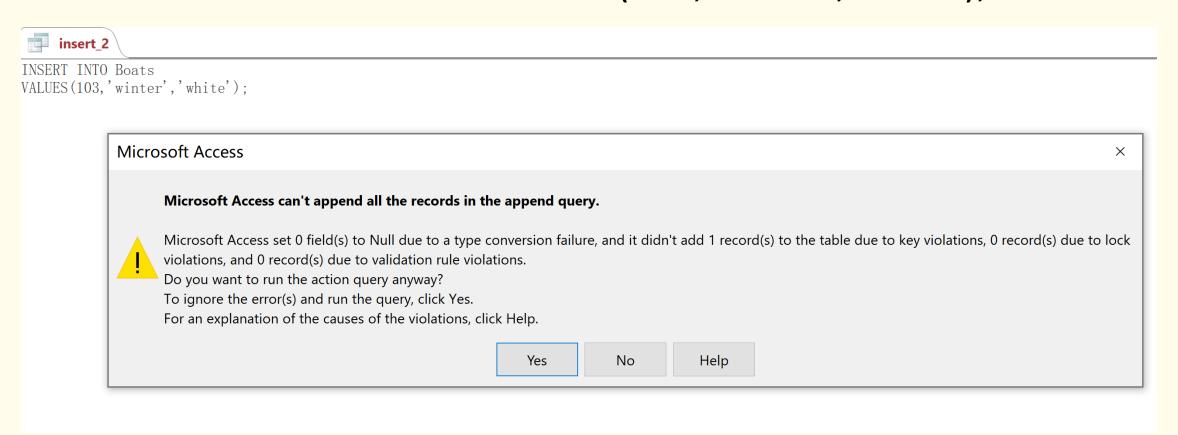
UPDATE Boats SET bid = -10 WHERE bid = 103;





3.2 Entity integrity constraint

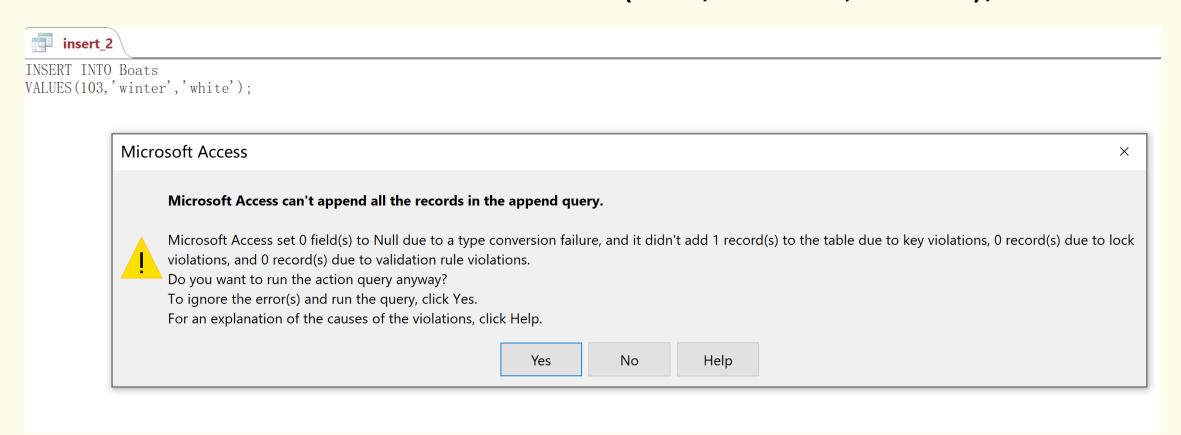
INSERT INTO Boats VALUES(103, 'winter', 'white');



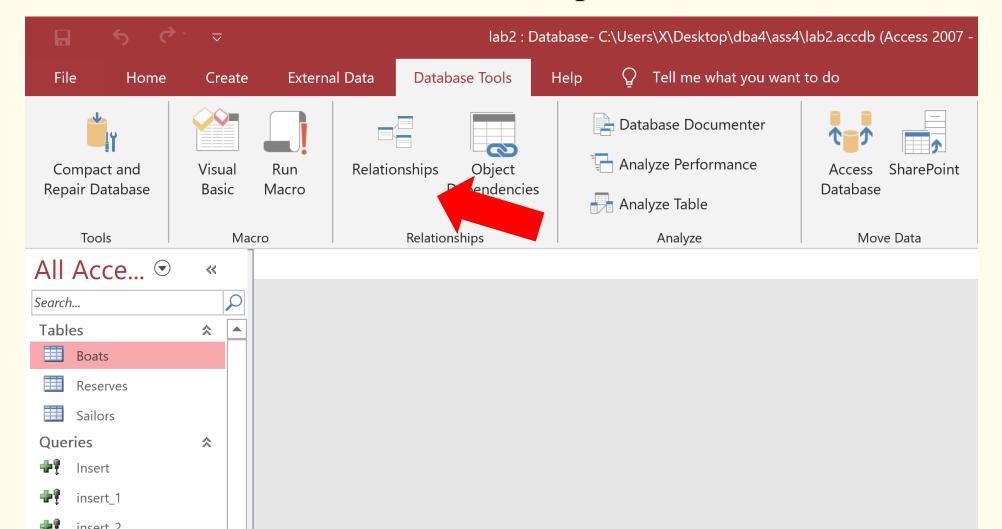


3.2 Entity integrity constraint

INSERT INTO Boats VALUES(Null, 'winter', 'white');



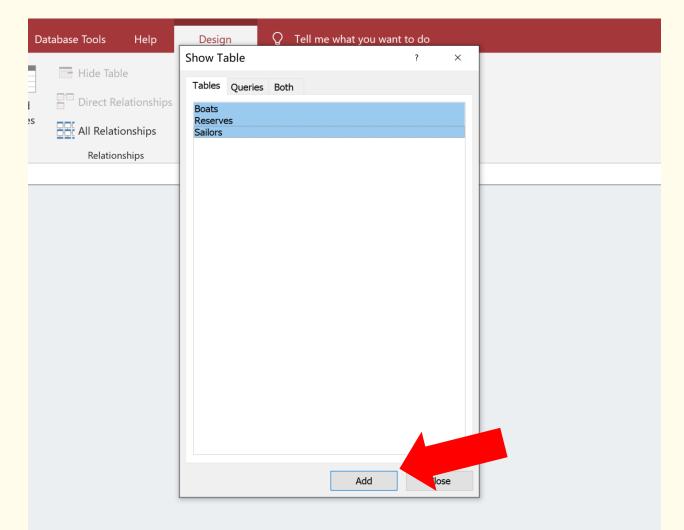
1) Click Database Tools-Relationships



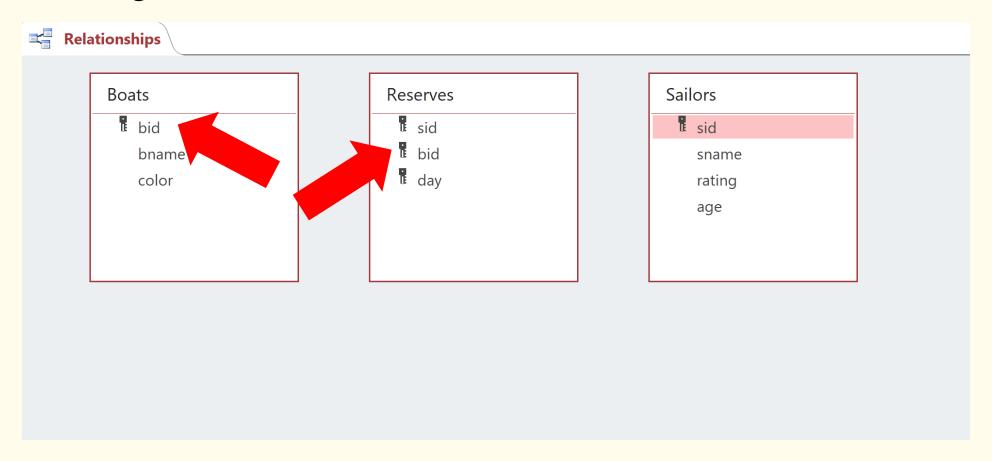
15



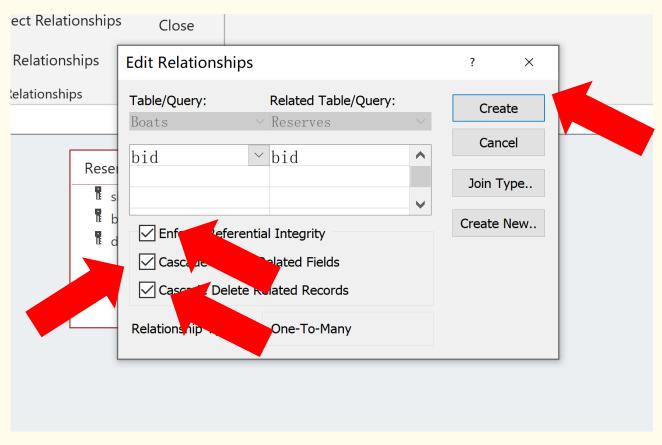
2) Choose Tables and Click Add

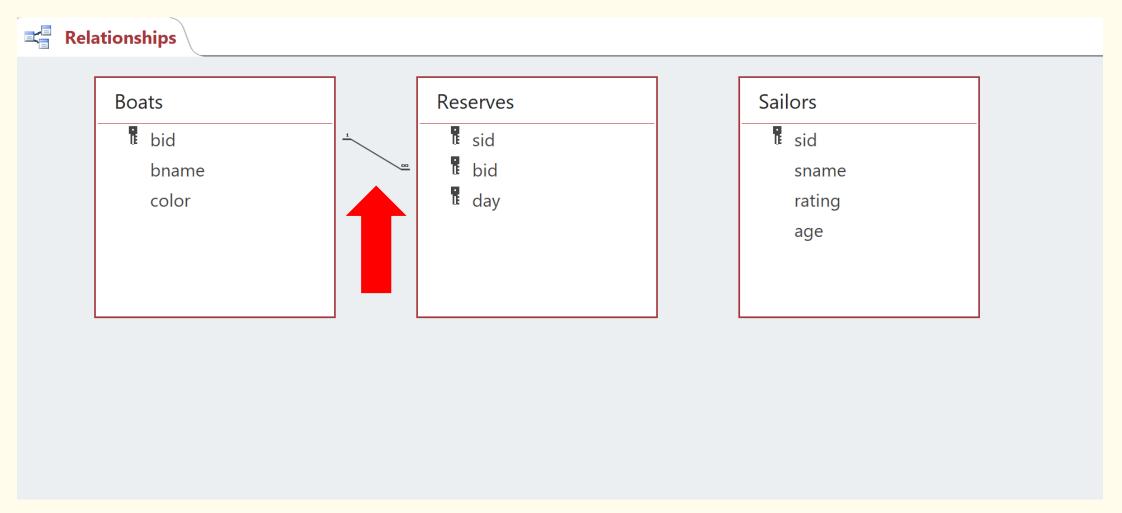


3) Drag Boats-bid to Reserves-bid

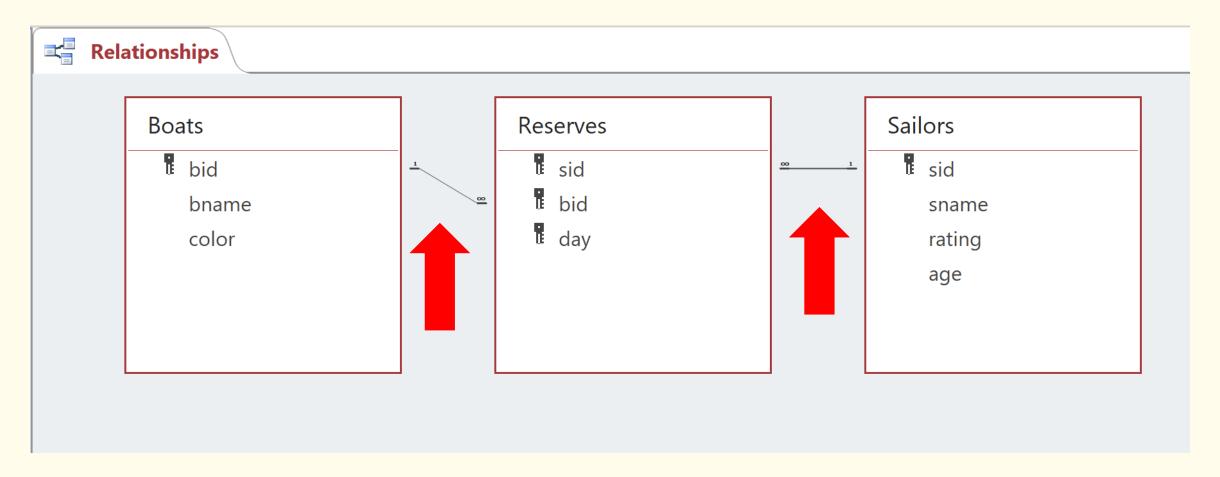


4) Check and Create



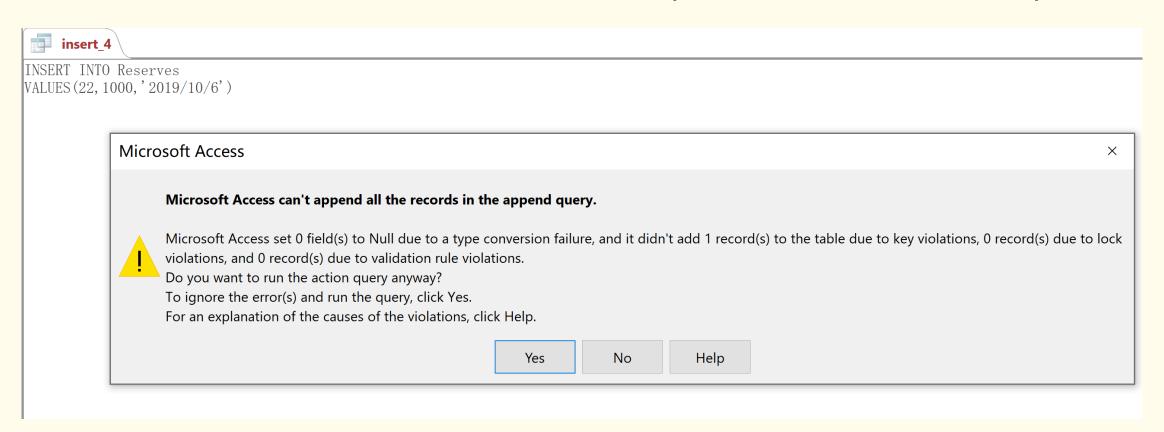








INSERT INTO Reserves VALUES(22,1000,'2019/10/6');





Assignment4



Content

✓ For Domain integrity constraint, Entity integrity constraint and Referential integrity constraint, you should give each integrity constraint "INSERT","DELETE" and "UPDATE" SQL statements to prove it.(At least 9 statements totally)



Database Schema

■ The schema of the database is provided below (keys are in bold, field types are omitted):

```
student(sid, sname, sex, age, year, gpa)
dept(dname, numphds)
prof(pname, dname)
course(cno, cname, dname)
major(dname, sid)
section(dname, cno, sectno, pname)
enroll(sid, grade, dname, cno, sectno)
```



Data Files

- Download the following data files from WeChat group files
 - > course.txt
 - > dept.txt
 - > enroll.txt
 - > major.txt
 - > prof.txt
 - > section.txt
 - > student.txt



Demand

This is an individual assignment –no group submissions are allowed.
 Hand in an ACCESS database that contains at least nine statements.
 The database should contain nine queries, named as follows:

Insert1

Insert2

• • •

Delete1

• • •

Update3

Hand in a report which indicates your answers. (Figure is important.
 You should give your analysis about your sql statements.)



Submission

File name format:

StudentNumber_A4.zip

including:

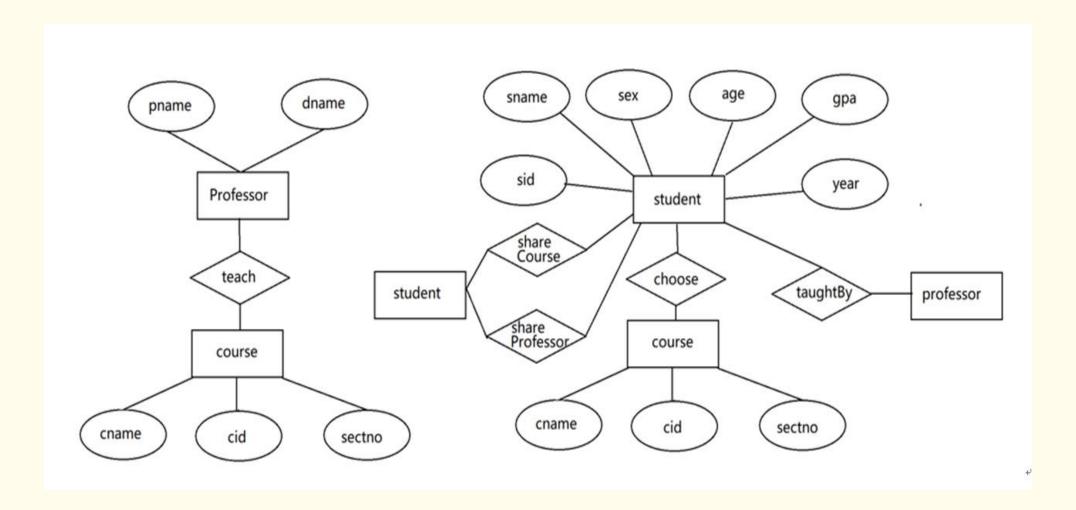
report_A4.doc/ report_A4.docx university_A4.mdb/university_A4.accdb

Deadline: Beijing time, December 3th, 00:00:00



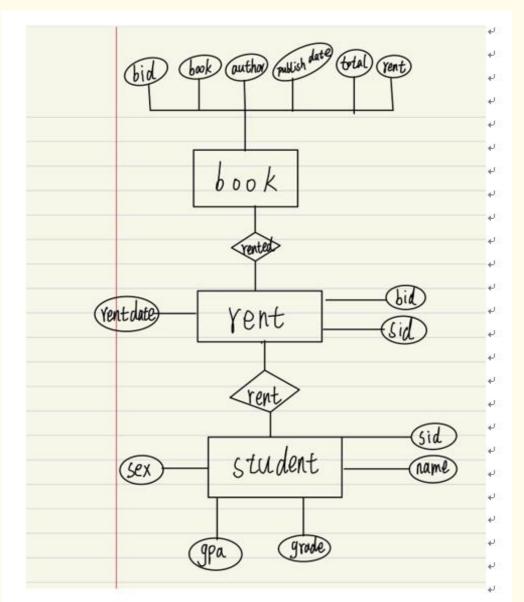
Assignment3 Review

Assignment3 Review





Assignment3 Review





Assignment3 Review

■ 优秀作业

可以看出,"老师贡献题目"是 1:N 的关系,"学生作答题目"是 N:N 的关系。由此,我们绘制 ER 图:

