	dNo		dName		cName	col	untS	taff
0	1	De	partment of History	Joh	n Smith			12
1	2	Dep	partment of Physics	Kenny H	lubbard			22
2	3	De	partment of English	Kennet	h Floyd			32
3	4	Depart	ment of Psychology	Leslie Th	nornton			42
4	5	Department	of Art and Science	Gilbert St	ephens			52
			m	Name	mID	cod	de	dNo
0			American	history	1	AM	1Н	1
1			European	history	2	EU	JΗ	1
2	Ge	neral Psyc	hology Concen	tration	3	GF	С	4
3			Computer S	cience	4	CS	C	5
4		L	anguage Arts Li	iteracy	5	LA	٩L	3
	s	fName	slName	sInitia	l si	D		
0	,	Yunting	Zhao	YZ	<u> </u>	1		
1	Do	ominick	Townsend	D	Γ	2		
2		Yiyi	He	Υŀ	1	3		
3		Liuhu	Lan	LI	-	4		
4		Qiao	Chu	QC		5		

	eNar	ne e	ID	startDate	endDate
0	ever	nt1	1	2021-12-18	2021-12-19
1	even	ıt2	2	2021-12-20	2021-12-21
2	even	ıt3	3	2021-12-22	2021-12-23
3	even	ıt4	4	2021-12-24	2021-12-25
4	even	ıt5	5	2021-12-26	2021-12-27
	sID	mID			
0	<b>sID</b>	<b>mID</b>	_		
0	1				
	1	1			
1	1 2	1			

	dNo	eID
0	1	1
1	2	2
2	3	3
3	4	4
4	5	5
	sID	eID

	sID	eID
0	1	1
1	2	2
2	3	3
3	4	4
4	5	5

=======5 select ======

1. Select students whose last name is Zhao query = """

SELECT \*

FROM Student

WHERE slName LIKE 'Zhao%'

cursor.execute(query)
column\_names = [row[0] for row in cursor.description]
table\_data = cursor.fetchall()

```
df= pd.DataFrame(table_data, columns=column_names)
db_connect.commit()
# db_connect.close()
df
```

```
[8]: query = """
    SELECT *
FROM Student
WHERE slName LIKE 'Zhao%'
    """

cursor.execute(query)
column_names = [row[0] for row in cursor.description]
table_data = cursor.fetchall()
df= pd.DataFrame(table_data, columns=column_names)

db_connect.commit()

# db_connect.close()
df
```

```
[8]: sfName slName slnitial slD

O Yunting Zhao YZ 1
```

2. Show the event details that Yunting participated
query = """
SELECT sfName, Event.\*
FROM Event, Student
JOIN Participation
ON Event.eID = Participation.eID AND Participation.sID = Student .sID
Where Student .sfName = 'Yunting'

"""
cursor.execute(query)
column\_names = [row[0] for row in cursor.description]
table\_data = cursor.fetchall()
df= pd.DataFrame(table\_data, columns=column\_names)

db\_connect.commit()

```
# db_connect.close() df
```

```
        sfName
        eName
        eID
        startDate
        endDate

        0
        Yunting
        event1
        1
        2021-12-18
        2021-12-19
```

4.list all the major that RU offered

3. Show the major code that Yunting enrolled query = """

SELECT sfName, Major.code
FROM Major, Student
JOIN Enrollment
ON Major.mID = Enrollment.mID AND Enrollment.sID = Student .sID
Where Student .sfName = 'Yunting'

"""

cursor.execute(query)
column\_names = [row[0] for row in cursor.description]
table\_data = cursor.fetchall()
df= pd.DataFrame(table\_data, columns=column\_names)

db\_connect.commit()

# db\_connect.close()
df

```
query = """
SELECT Major.*
FROM Major

cursor.execute(query)
column_names = [row[0] for row in cursor.description]
table_data = cursor.fetchall()
df= pd.DataFrame(table_data, columns=column_names)

db_connect.commit()

# db_connect.close()
df
```

	mName	mID	code	dNo
0	American history	1	АМН	1
1	European history	2	EUH	1
2	General Psychology Concentration	3	GPC	4
3	Computer Science	4	CSC	5
4	Language Arts Literacy	5	LAL	3

5.list all the event school has

```
query = """
SELECT Event.*
FROM Event

cursor.execute(query)
column_names = [row[0] for row in cursor.description]
table_data = cursor.fetchall()
df= pd.DataFrame(table_data, columns=column_names)

db_connect.commit()

# db_connect.close()
df
```

	eName	eID	startDate	endDate
0	event1	1	2021-12-18	2021-12-19
1	event2	2	2021-12-20	2021-12-21
2	event3	3	2021-12-22	2021-12-23
3	event4	4	2021-12-24	2021-12-25
4	event5	5	2021-12-26	2021-12-27

```
query = """
SELECT sfName, Major.code
FROM Major, Student
JOIN Enrollment
ON Major.mID = Enrollment.mID AND Enrollment.sID = Student .sID
Where Student .sfName = 'Yunting'

cursor.execute(query)
column_names = [row[0] for row in cursor.description]
table_data = cursor.fetchall()
df= pd.DataFrame(table_data, columns=column_names)

db_connect.commit()

# db_connect.close()
df
```

## sfName code

**0** Yunting AMH