



Department of  
Computer Engineering

به نام خدا



دانشگاه صنعتی امیرکبیر  
( پلی تکنیک تهران )

تمرین تحویلی اول  
آزمایشگاه پایگاه داده

امیرفاضل کوزه گر کالجی

۹۹۳۱۰۹۹

l)

select s\_id, s\_name

from Students

where tavg>=17





and

( s\_name LIKE 'a%'

or

s\_name LIKE '%a')

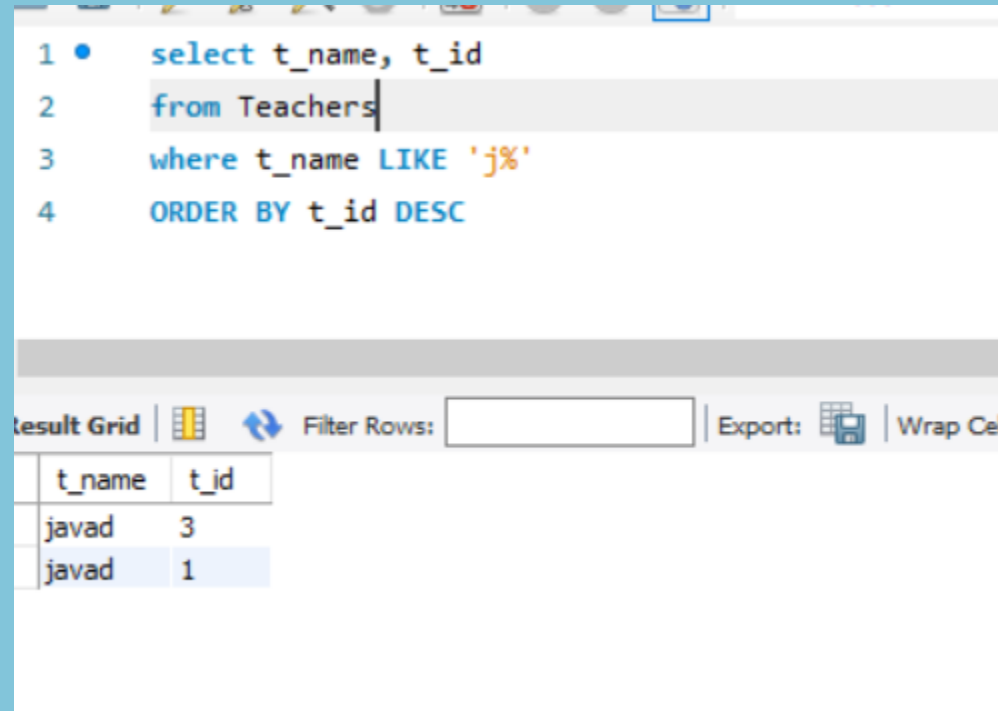
```
3  where tavg>=17
4  and
5  ( s_name LIKE 'a%'
6  or
7  s_name LIKE '%a')|
```

Result Grid |   Filter Rows:  | Export:  | Wrap Cell Content: 

	s_id	s_name
	2	ahmad
	11	ali

7)

```
select t_name, t_id  
from teacher  
where t_name LIKE 'j%'  
ORDERBY t_id DESC
```



۳)

update Student

set tavg =tavg + ۱

where city LIKE 'z%' and City LIKE '%n'

1	•	SET SQL_SAFE_UPDATES = 0;
2		
3		
4	•	update Students
5		set tavg =tavg + 1
6		where city LIKE 'z%' and City LIKE '%n';
7		
8		
9	•	SET SQL_SAFE_UPDATES = 1;

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 1	17:49:56	SET ...	0 row(s) affected	0.000 sec
✓ 2	17:49:56	upda...	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.046 sec
✓ 3	17:49:56	SET ...	0 row(s) affected	0.000 sec

ξ)

sql server:

select TOP Γ•% \*

from Students

where age>Γ•

ORDERBY age ASC

-----

mysql:

select \*

from Students

where age>Γ•

ORDERBY age ASC

LIMIT Γ•%

```
1 • select *
2   from Students
3   where age>20
4   ORDER BY age ASC
5   limit (select count(*) from Students where age>20)/5
```

Output

#	Time	Action	Message	Duration / Fetch
1	17:47:13	selec...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '(select count(*) from Students where age>20...'	0.000 sec

o)

delete

from Students where

s\_name = "amirmohammad" and s\_family = "hoseini"

```
1 • SET SQL_SAFE_UPDATES = 0;
2
3
4
5 • delete
6   from Students where
7     s_name = "amirmohammad" and s_family = "hoseini";
8
9
10 • SET SQL_SAFE_UPDATES = 1;
```

Output

#	Time	Action	Message	Duration / Fetch
1	17:49:07	SET ...	0 row(s) affected	0.000 sec
2	17:49:07	delete...	0 row(s) affected	0.000 sec
3	17:49:07	SET ...	0 row(s) affected	0.000 sec

7)

select s\_name, s\_family

from Students INNER JOIN term ON term.s\_id = Students.s\_id

where term\_no = 3 and age>20.

```
1 • SET SQL_SAFE_UPDATES = 0;
2
3
4 • select s_name, s_family
5   from Students INNER JOIN term ON term.s_id = Students.s_id
6  where term_no = 3 and age>20;
7
8
9 • SET SQL_SAFE_UPDATES = 1;
```

Result Grid |  Filter Rows:  | Export:  | Wrap Cell Content: 

s_name	s_family
sajjad	aemmi
mehrnaz	mohammadzadeh

V)

select s\_name

from Students INNER JOIN term ON term.s\_id = Students.s\_id

where term\_no BETWEEN 1 and 3 and gender = "m" and grade>18

```
1 • SET SQL_SAFE_UPDATES = 0;
2
3
4 • select s_name
5   from Students INNER JOIN term ON term.s_id = Students.s_id
6  where term_no BETWEEN 1 and 3 and gender = "m" and grade>18;
7
8
9 • SET SQL_SAFE_UPDATES = 1;
```

Result Grid | Filter Rows:  | Export: | Wrap Cell Content:

s_name
--------



Λ)

select \*

from teachers natural join course

where salary > 0..... and t\_field != "computer"

ORDER BY t\_id DESC

```
1 • SET SQL_SAFE_UPDATES = 0;
2
3
4 • select *
5   from teachers natural join course
6  where salary > 5000000 and t_feild != "computer"
7     ORDER BY t_id DESC;
8
9
10 • SET SQL_SAFE_UPDATES = 1;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [↗](#)

t_id	t_name	t_family	salary	t_feild	c#	c_name	unit	dep	c_feild
8	ali	haerian	6000000	industry	1	mathematical	3	computer	electricity
8	ali	haerian	6000000	industry	2	electricalcircuits	3	computer	electricity
8	ali	haerian	6000000	industry	3	logicircuits	3	computer	computer
8	ali	haerian	6000000	industry	4	datastructure	3	computer	computer
8	ali	haerian	6000000	industry	5	androidprogramming	3	computer	computer
8	ali	haerian	6000000	industry	6	computerarchitecture	3	computer	computer
8	ali	haerian	6000000	industry	7	electronic	3	electricity	electricity
8	ali	haerian	6000000	industry	8	soil	3	construction	construction