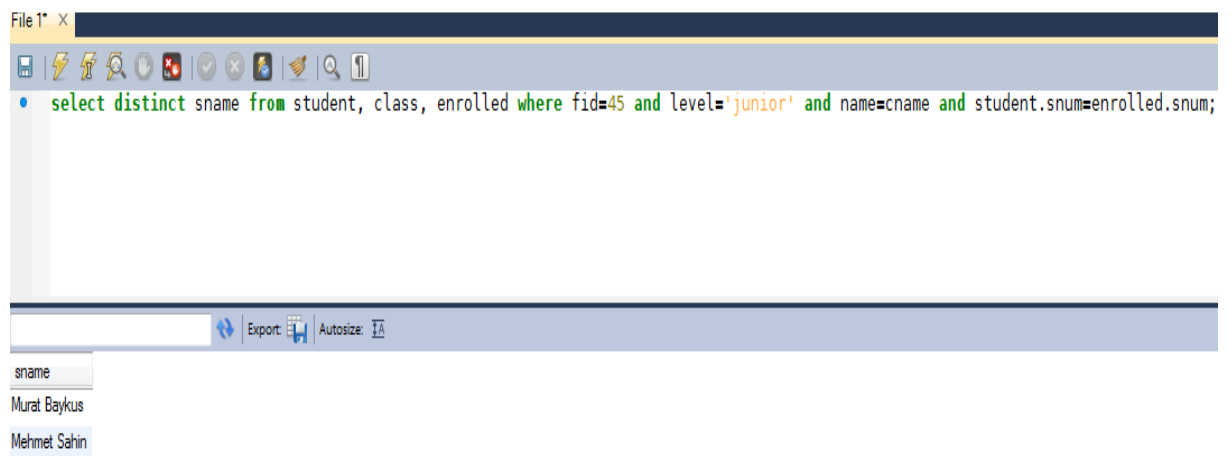


2058 LAB5 ANSWERS

1.



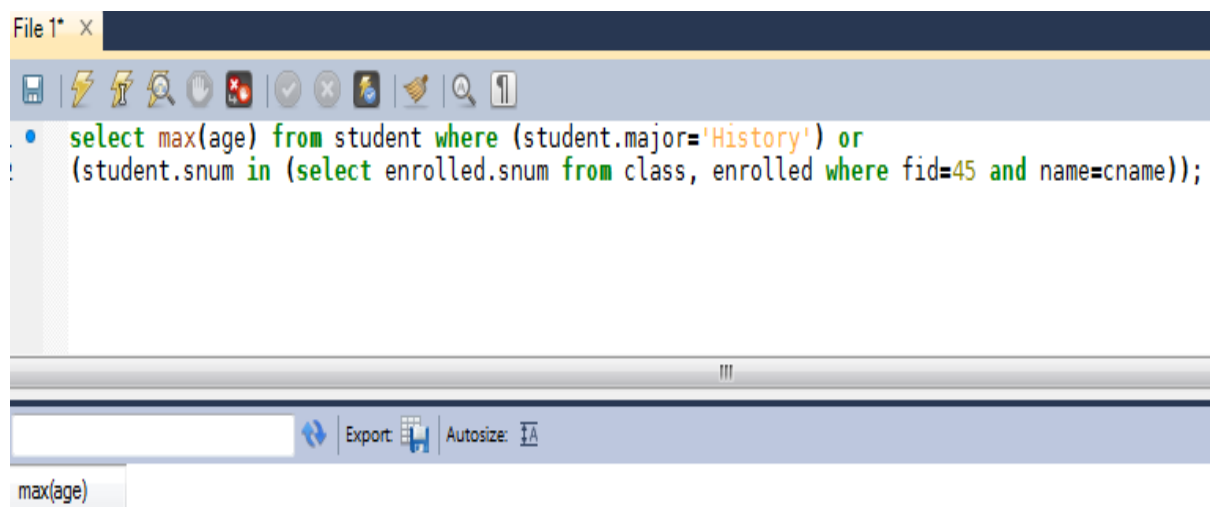
The screenshot shows a SQL IDE window titled 'File 1*'. The query editor contains the following SQL statement:

```
select distinct sname from student, class, enrolled where fid=45 and level='junior' and name=cname and student.snum=enrolled.snum;
```

The results pane below the query editor displays the following data:

sname
Murat Baykus
Mehmet Sahin

2.



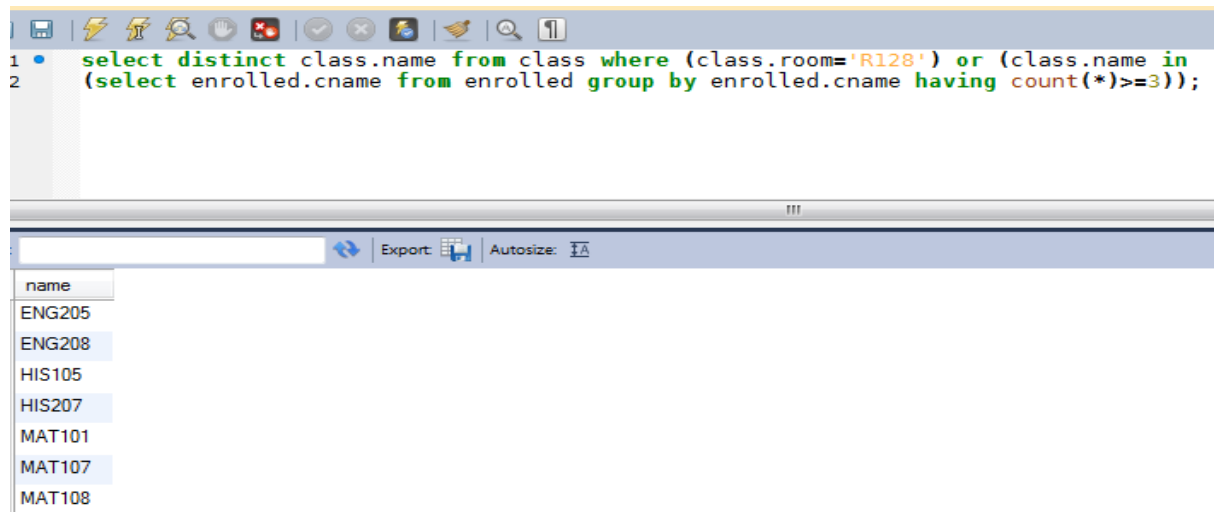
The screenshot shows a SQL IDE window titled 'File 1*'. The query editor contains the following SQL statement:

```
select max(age) from student where (student.major='History') or (student.snum in (select enrolled.snum from class, enrolled where fid=45 and name=cname));
```

The results pane below the query editor displays the following data:

max(age)
21

3.



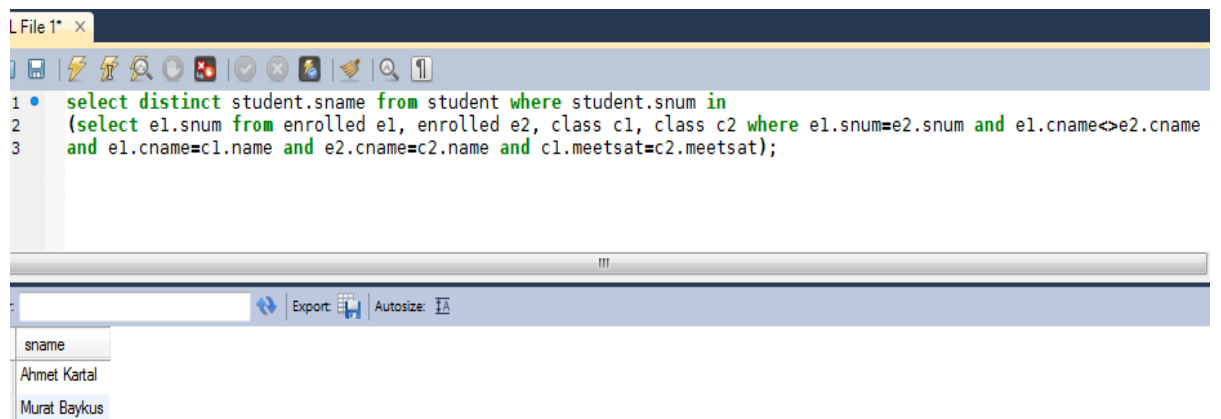
The screenshot shows a SQL IDE with a query editor at the top and a results pane at the bottom. The query editor contains the following SQL code:

```
1 • select distinct class.name from class where (class.room='R128') or (class.name in
2 (select enrolled.cname from enrolled group by enrolled.cname having count(*)>=3));
```

The results pane shows a table with one column named 'name'. The table contains the following rows:

name
ENG205
ENG208
HIS105
HIS207
MAT101
MAT107
MAT108

4.



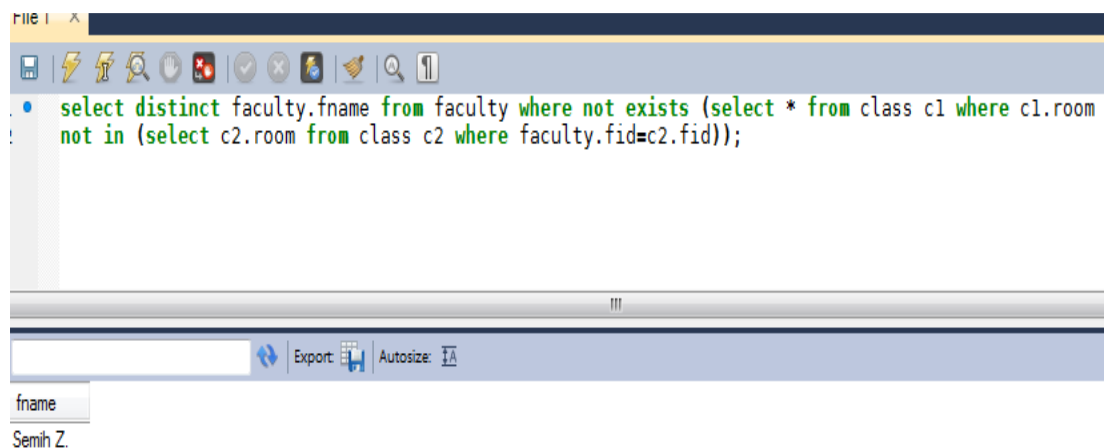
The screenshot shows a SQL IDE with a query editor at the top and a results pane at the bottom. The query editor contains the following SQL code:

```
1 • select distinct student.sname from student where student.snum in
2 (select e1.snum from enrolled e1, enrolled e2, class c1, class c2 where e1.snum=e2.snum and e1.cname<>e2.cname
3 and e1.cname=c1.name and e2.cname=c2.name and c1.meetsat=c2.meetsat);
```

The results pane shows a table with one column named 'sname'. The table contains the following rows:

sname
Ahmet Kartal
Murat Baykus

5.



The screenshot shows a SQL IDE with a query editor at the top and a results pane at the bottom. The query editor contains the following SQL code:

```
1 • select distinct faculty.fname from faculty where not exists (select * from class c1 where c1.room
2 not in (select c2.room from class c2 where faculty.fid=c2.fid));
```

The results pane shows a table with one column named 'fname'. The table contains the following row:

fname
Semih Z.

6.

```
1 • select distinct fname from faculty where 5 > (select count(enrolled.snum) from class, enrolled
2   where name=cname and class.fid=faculty.fid);
```

Results:

fname
Selin C.
Demir R.
Zeynep Z.
Zafer K.

7.

```
1 • select level, avg(age) from student group by level;
```

Results:

level	avg(age)
Freshmen	17.0000
Junior	18.6667
Senior	20.0000
Sophomore	18.0000

8.

```
1 • select level, avg(age) from student where level<>'junior' group by level;
```

Results:

level	avg(age)
Freshmen	17.0000
Senior	20.0000
Sophomore	18.0000