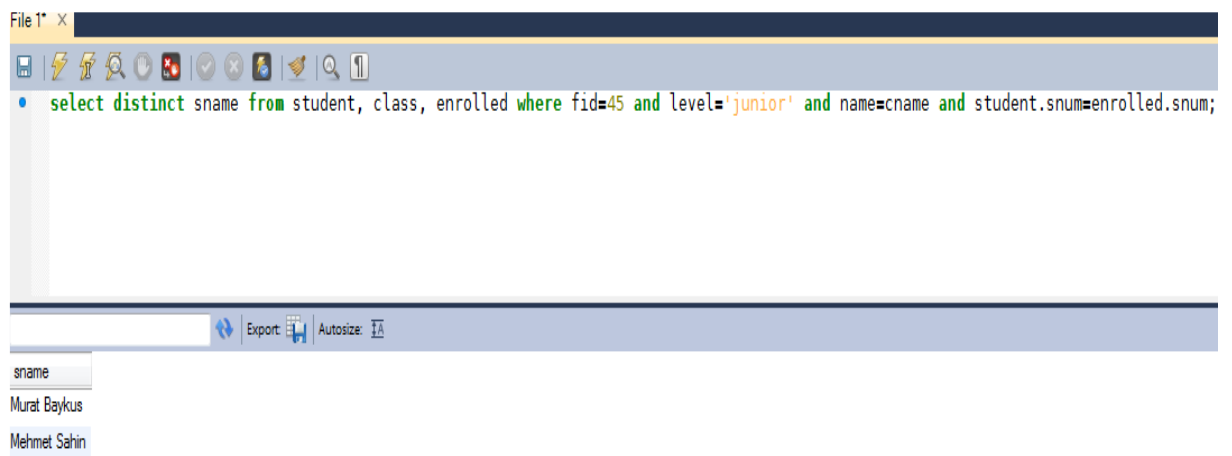


2058 LAB5 ANSWERS

1.



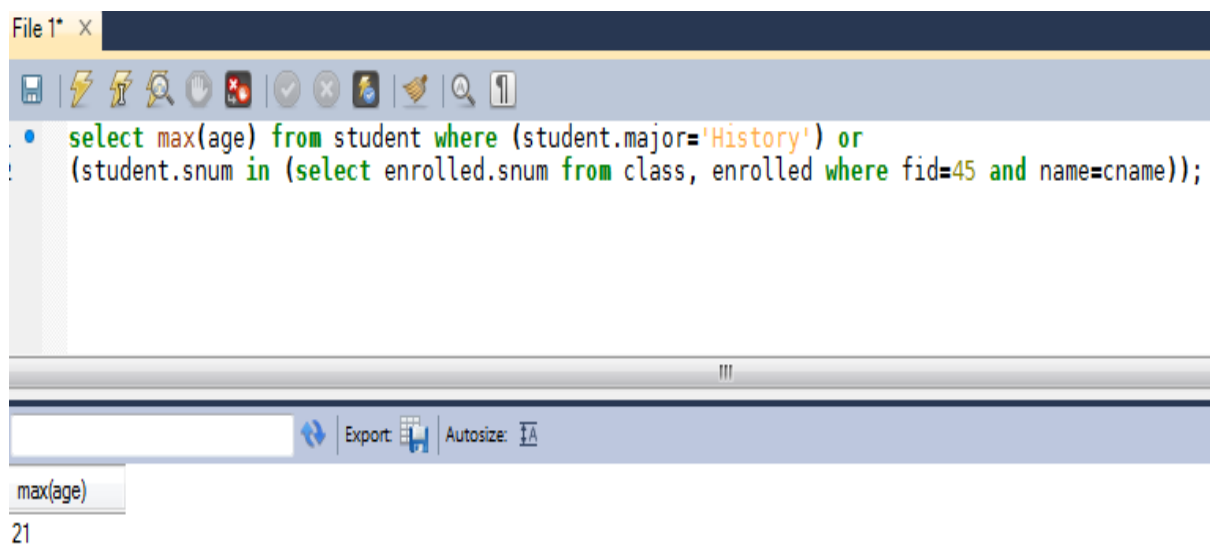
The screenshot shows a SQL IDE window titled 'File 1*'. The query editor contains the following SQL statement:

```
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.



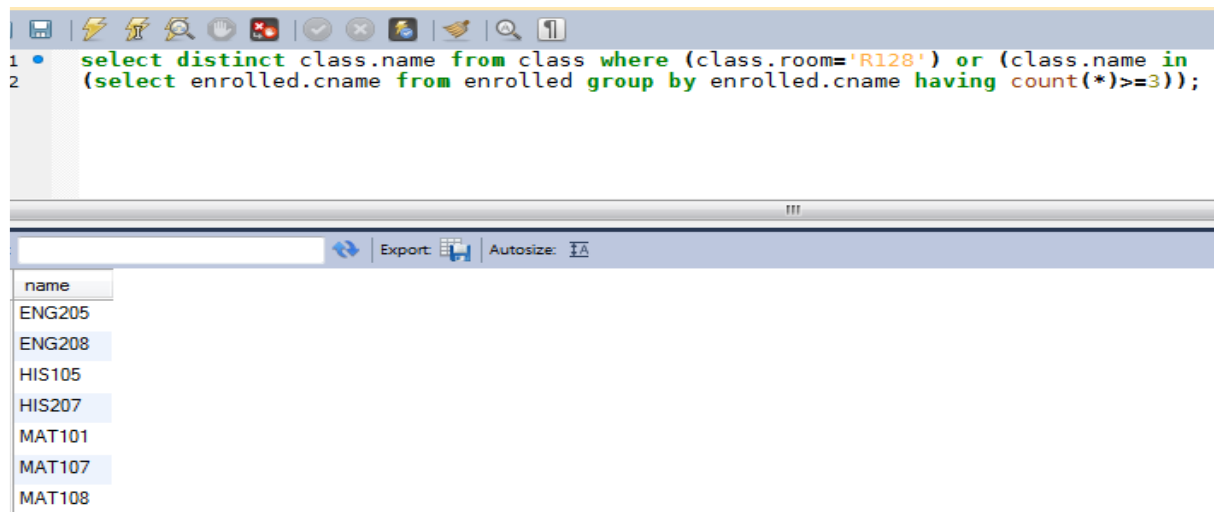
The screenshot shows a SQL IDE window titled 'File 1*'. The query editor contains the following SQL statement:

```
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.



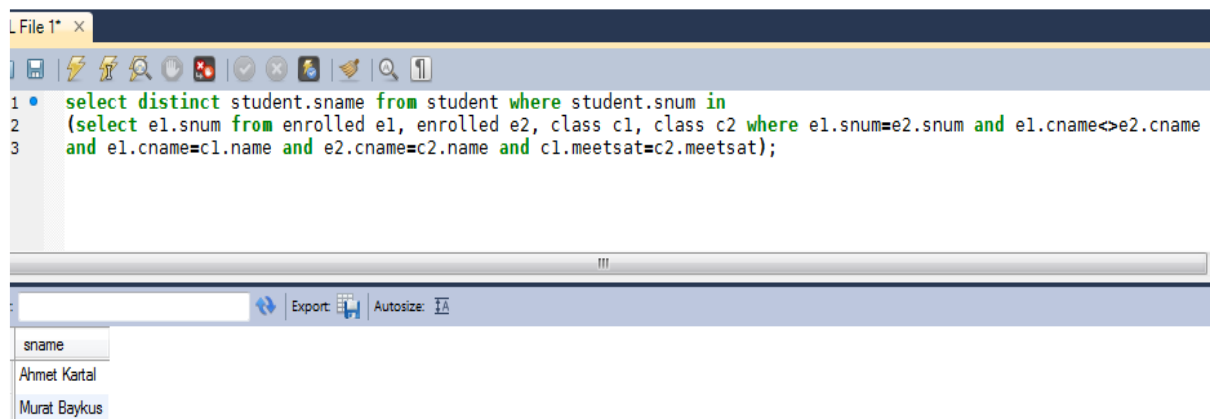
The screenshot shows a SQL IDE with a query editor at the top and a results pane at the bottom. The query editor contains the following SQL code:

```
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.



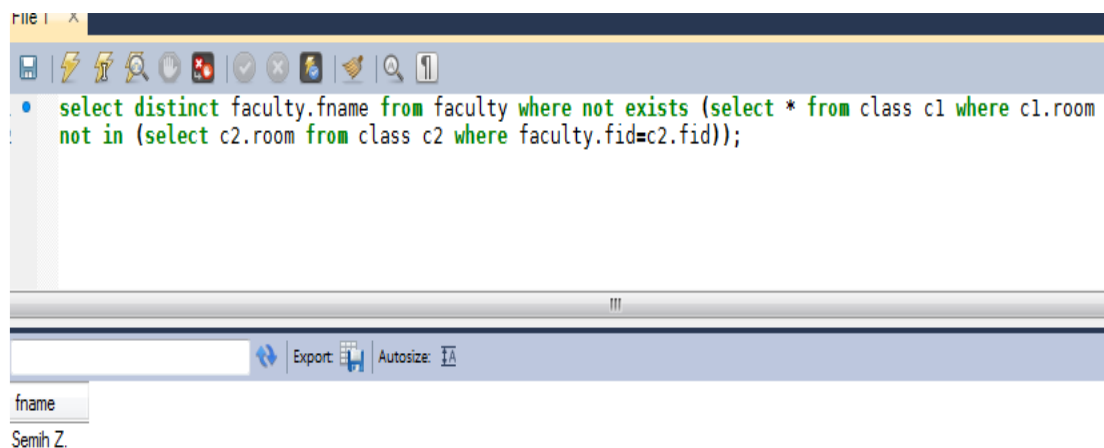
The screenshot shows a SQL IDE with a query editor at the top and a results pane at the bottom. The query editor contains the following SQL code:

```
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:

```
• select distinct faculty.fname from faculty where not exists (select * from class c1 where c1.room
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 rows:

| 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 |