

D08 – Queries

Level C.

- Query C/1: “The average number of accepted and denied requests per lessor “

```
select 1.0*(select count(r1) from Request r1 where  
r1.status='ACCEPTED')/count(r) from Request r;
```

```
select 1.0*(select count(r1) from Request r1 where  
r1.status='DENIED')/count(r) from Request r;
```

- Query C/2: “The average number of accepted and denied requests per tenant “

```
select 1.0*(select count(r1) from Request r1 where  
r1.status='ACCEPTED')/count(r) from Tenant r;
```

```
select 1.0*(select count(r1) from Request r1 where  
r1.status='DENIED')/count(r) from Tenant r;
```

- Query C/3: “The lessors who have approved more requests.”

```
select r.property.lessor from Request r where r.status='ACCEPTED'  
group by r.property.lessor having count(r)>=all(select count(c) from  
Request c where c.status='ACCEPTED' group by c.property.lessor);
```

- Query C/4: “The lessors who have denied more requests.”

```
select r.property.lessor from Request r where r.status='DENIED'  
group by r.property.lessor having count(r)>=all(select count(c) from  
Request c where c.status='DENIED' group by c.property.lessor);
```

- Query C/5: “The lessors who have pending more requests.”

```
select r.property.lessor from Request r where r.status='PENDING'  
group by r.property.lessor having count(r)>=all(select count(c) from  
Request c where c.status='PENDING' group by c.property.lessor);
```

- Query C/ 6: “The tenants who have got more requests approved.”

```
select r.tenant from Request r where r.status='ACCEPTED' group by
r.tenant having count(r) >= all(select count(c) from Request c where
c.status='ACCEPTED' group by c.tenant);
```

- Query C/7 “The tenants who have got more requests denied.”

```
select r.tenant from Request r where r.status='DENIED' group by
r.tenant having count(r) >= all(select count(c) from Request c where
c.status='DENIED' group by c.tenant);
```

- Query C/8 “The tenants who have more pending requests.”

```
select r.tenant from Request r where r.status='PENDING' group by
r.tenant having count(r) >= all(select count(c) from Request c where
c.status='PENDING' group by c.tenant);
```

- Query C/9

```
select distinct r1.property.lessor, 1.0*(select count(r) from Request
r where r.status='ACCEPTED' and
r.property.lessor=r1.property.lessor)/count(r1) from Request r1
group by r1.property.lessor;
```

- Query C/10

```
select distinct r1.tenant, 1.0*(select count(r) from Request r where
r.status='ACCEPTED' and r.tenant=r1.tenant)/count(r1) from
Request r1 group by r1.tenant;
```

- Query C/11: “The average, the minimum, and the maximum number of results per finder.”

```
select min(f.results.size),avg(f.results.size),max(f.results.size) from
Finder f;
```

Level B.

- Query B/1: "The minimum, the average, and the maximum number of audits that the properties have got."

```
select min(p.audits.size), avg(p.audits.size), max(p.audits.size) from  
Property p;
```

- Query B/2: "A listing in which the attributes are sorted in descending order regarding the number of times they have been used to describe a property."

```
select a from Attribute a order by a.values.size DESC;
```

- Query B/3: "A listing with his or her properties sorted according to the number of audits that they have got."

```
select p from Property p where p.lessor=?1 order by p.audits.size;
```

- Query B/4: "A listing with his or her properties sorted according to the number of requests that they have got."

```
select p from Property p where p.lessor=?1 order by p.requests.size;
```

- Query B/5: "A listing with his or her properties sorted according to the number of approved requests that they have got."

```
select p from Property p join p.requests r where  
r.status='ACCEPTED' and p.lessor=?1 order by r;
```

- Query B/6: "A listing with his or her properties sorted according to the number of denied requests that they have got."

```
select p from Property p join p.requests r where r.status='DENIED'  
and p.lessor=?1 order by r;
```

- Query B/7: "A listing with his or her properties sorted according to the number of pending requests that they have got."

```
select p from Property p join p.requests r where r.status='PENDING'
and p.lessee=?1 order by r;
```

Level A.

- Query A/1: “The minimum, the average, and the maximum number of social identities per actor”

```
select min(a.socialIdentities.size), avg(a.socialIdentities.size),
max(a.socialIdentities.size) from Actor a;
```

- Query A/2 : “The minimum, the average, and the maximum number of invoices issued to the tenants.”

```
min -> select count(r) from Request r where r.status='ACCEPTED'
group by r.tenant having count(r) <= all(select count(c) from
Request c where c.status='ACCEPTED' group by c.tenant);
```

```
avg -> select 1.0*(select count(r) from Request r where
r.status='ACCEPTED')/count(t) from Tenant t;
```

```
max -> select count(r) from Request r where r.status='ACCEPTED'
group by r.tenant having count(r) >= all(select count(c) from
Request c where c.status='ACCEPTED' group by c.tenant);
```

- Query A/3: “The total amount of money due in the invoices issued by the system.”

```
select sum(i.amountDue) from Invoice i;
```

- Query A/4: “The average number of requests for properties that have at least an audit record versus the average number of requests for properties that do not have any audits.”

```
-> 1o parte -> select (select sum(p.requests.size) from Property p
where p.audits.size>=1)/count(p) from Property p where
p.audits.size>=1;
```

-> 2º parte -> select (select sum(p.requests.size) from Property p
where p.audits.size=0)/count(p) from Property p where
p.audits.size=0;