Queries 2.0

C1 - A listing of managers sorted by the number of events that they organize.

Seleccionamos los managers del sistema ordenados por el número de eventos que tienen organizados.

select m from Manager m order by m.events.size DESC;

```
> select m from Manager m order by m.events.size DESC;
3 objects selected
domain.Manager{id=90, version=0}
        domain.DomainEntity::id: int = 90
        domain.DomainEntity::version: int = 0
        domain.Actor::name: java.lang.String = "Pedro"
        domain.Actor::surname: java.lang.String = "Almodovar"
        domain.Actor::email: java.lang.String = "pAlm@gmail.com"
        domain.Actor::phone: java.lang.String = "+34 966122122"
        domain.Actor::userAccount: security.UserAccount = security.UserAccount{id=64, version=0}
        domain.Mailer::sent: java.util.Collection = [domain.Chirp{id=102, version=0}]
        domain.Manager::company: java.lang.String = "Pedro's Company"
        domain.Manager::vat: java.lang.String = "ES-78787878"
        domain.Manager::creditCard: domain.CreditCard =
        domain.Manager::feeAmount: java.lang.Double = 20.0
        domain.Manager::events: java.util.Collection = [domain.Event{id=93, version=0}, domain.Event{id=94, version=0}]
```

C2 - A listing of managers that includes the amount that they due in fees.

Seleccionamos los managers del sistema y su fee.

select m,m.feeAmount from Manager m;

```
> select m,m.feeAmount from Manager m;
3 objects selected
[domain.Manager{id=90, version=0}, 20.0]
[domain.Manager{id=91, version=0}, 15.0]
[domain.Manager{id=92, version=0}, 100.0]
```

C3 - A listing of chorbies sorted by the number of events to which they have registered.

Seleccionamos los chorbies del sistema ordenados por el número de eventos a los que se han registrado.

select c from Chorbi c order by c.relationEvents.size DESC;

```
> select c from Chorbi c order by c.relationEvents.size DESC;
5 objects selected
domain.Chorbi{id=85, version=0}
        domain.DomainEntity::id: int = 85
        domain.DomainEntity::version: int = 0
        domain.Actor::name: java.lang.String = "Juan"
        domain.Actor::surname: java.lang.String = "Vazquez"
        domain.Actor::email: java.lang.String = "juava@gmail.com"
        domain.Actor::phone: java.lang.String = "+34 966845789"
        domain.Actor::userAccount: security.UserAccount = security.UserAccount{id=59, version=0}
        domain.Mailer::sent: java.util.Collection = [domain.Chirp{id=98, version=0}, domain.Chirp{id=101, version=0}, domain.Ch
irp{id=99, version=0}]
        domain.Chorbi::picture: java.lang.String = "http://2.bp.blogspot.com/-H6MLqMZhViM/VD7jpYbzemI/AAAAAAAABNO/C1eyjkI-Y4U/s
1600/visitante%2Bmisterioso.jpg"
        domain.Chorbi::description: java.lang.String = "description1"
        domain.Chorbi::birthDate: java.util.Date = <<1995-02-06>>
        domain.Chorbi::creditCard: domain.CreditCard =
```

C4 - A listing of chorbies that includes the amount that they due in fees.

Seleccionamos los chorbies del sistema y su fee.

select m,m.feeAmount from Chorbi m;

```
> select m,m.feeAmount from Chorbi m;
5 objects selected
[domain.Chorbi{id=85, version=0}, 5.0]
[domain.Chorbi{id=86, version=0}, 23.0]
[domain.Chorbi{id=87, version=0}, 5.0]
[domain.Chorbi{id=88, version=3}, 13.0]
[domain.Chorbi{id=89, version=0}, 20.0]
```

B1 - The minimum, the maximum, and the average number of stars per chorbi.

Seleccionamos el mínimo, el máximo y la media del número de estrellas por chorbi.

select min(c.avgStars),max(c.avgStars),avg(c.avgStars) from Chorbi c;

```
> select min(c.avgStars),max(c.avgStars),avg(c.avgStars) from Chorbi c;
1 object selected
[0.0, 3.0, 1.7]
```

B2 - The list of chorbies, sorted by the average number of stars that they've got.

Seleccionamos los chorbies del sistema ordenados por su número medio de estrellas.

select c from Chorbi c order by c.avgStars DESC;

```
> select c from Chorbi c order by c.avgStars DESC;
5 objects selected
domain.Chorbi{id=86, version=0}
        domain.DomainEntity::id: int = 86
        domain.DomainEntity::version: int = 0
        domain.Actor::name: java.lang.String = "Nica"
        domain.Actor::surname: java.lang.String = "Griego Barco"
        domain.Actor::email: java.lang.String = "nigriba@gmail.com"
        domain.Actor::phone: java.lang.String = "+34 966995789"
        domain.Actor::userAccount: security.UserAccount = security.UserAccount{id=60, version=0}
        domain.Mailer::sent: java.util.Collection = [domain.Chirp{id=100, version=0}]
        domain.Chorbi::picture: java.lang.String = "http://photos1.blogger.com/blogger/1942/3777/1600/Anonimo.jpg"
        domain.Chorbi::description: java.lang.String = "description2"
        domain.Chorbi::birthDate: java.util.Date = <<1992-02-06>>
        domain.Chorbi::creditCard: domain.CreditCard =
        domain.Chorbi::coordinate: domain.Coordinate =
        domain.Chorbi::banned: java.lang.Boolean = false
```

C.1.1 - A listing with the number of chorbies per country.

Seleccionamos el número de Chorbies que hay por cada país.

select count(c) from Chorbi c group by country;

```
> select count(c) from Chorbi c group by country;
2 objects selected
4
1
```

C.1.2 - A listing with the number of chorbies per city.

Seleccionamos en número de Chorbies que hay por cada ciudad.

select count(c) from Chorbi c group by city;

```
> select count(c) from Chorbi c group by city;
3 objects selected
1
1
3
```

C.2 - The minimum, the maximum, and the average ages of the chorbies.

Calculamos la diferencia que hay entre la fecha actual y la fecha de nacimiento de un Chorbie y lo normalizamos a años y seleccionamos el valor mínimo, máximo y la media.

select min(datediff(current_date,c.birthDate)/365),

max(datediff(current_date,c.birthDate)/365),

avg(datediff(current_date,c.birthDate)/365) from Chorbi c;

```
> select min(datediff(current_date,c.birthDate)/365),max(datediff(current_date,c.birt
te,c.birthDate)/365) from Chorbi c;
1 object selected
[24, 27, 26.07068493]
```

C.3 - The ratio of chorbies who have not registered a credit card or have registered an invalid credit card.

Contamos cuantos Chorbies tienen CreditCards nulas o no tienen y lo dividimos entre el total de Chorbies.

select 1.0(select count(c) from Chorbi c where c.creditCard=null)/ count(c2) from Chorbi c2;*

```
> select 1.0*(select count(c) from Chorbi c where c.creditCard=null)/ count(c2) from
1 object selected
0.2
```

C.4 - The ratios of chorbies who search for “activities”, “friendship”, and “love”.

Calculamos el número de Chorbies que tienen como KindRelationship igual a activities, a friendship y a love y lo dividimos cada uno por el total de Chorbies.

select 1.0(select count(c) from Chorbi c where c.kindRelationship.value='activities')/ count(c2),*

1.0(select count(c) from Chorbi c where c.kindRelationship.value='friendship')/ count(c2),*

1.0(select count(c) from Chorbi c where c.kindRelationship.value='love')/ count(c2) from Chorbi c2;*

```
> select 1.0*(select count(c) from Chorbi c where c.kindRelationship.value='activit
 from Chorbi c where c.kindRelationship.value='friendship')/ count(c2),1.0*(select
lationship.value='love')/ count(c2) from Chorbi c2;
1 object selected
[0.2, 0.6, 0.2]
```

B.1 - The list of chorbies, sorted by the number of likes they have got.

Listamos los Chorbies ordenados por el atributo likesReceived que nos dice cuántos likes tienen los Chorbies.

select c from Chorbi c order by c.likesReceived.size desc;

```
> select c from Chorbi c order by c.likesReceived.size desc;
5 objects selected
domain.Chorbi{id=61, version=0}
        domain.DomainEntity::id: int = 61
        domain.DomainEntity::version: int = 0
        domain.Actor::name: java.lang.String = "Nica"
        domain.Actor::surname: java.lang.String = "Griego Barco"
        domain.Actor::email: java.lang.String = "nigriba@gmail.com"
        domain.Actor::phone: java.lang.String = "+34 966995789"
        domain.Actor::userAccount: security.UserAccount = security.UserAccount{id=40,
        domain.Chorbi::picture: java.lang.String = "http://photos1.blogger.com/blogge
        domain.Chorbi::description: java.lang.String = "description2"
        domain.Chorbi::birthDate: java.util.Date = <<1992-02-06>>
        domain.Chorbi::creditCard: domain.CreditCard =
        domain.Chorbi::coordinate: domain.Coordinate =
        domain.Chorbi::banned: java.lang.Boolean = false
        domain.Chorbi::genre: domain.Genre = domain.Genre{id=50, version=0}
        domain.Chorbi::kindRelationship: domain.KindRelationship = domain.KindRelatio
        domain.Chorbi::sended: java.util.Collection = [domain.Chirp{id=67, version=0}
        domain.Chorbi::received: java.util.Collection = [domain.Chirp{id=65, version=
        domain.Chorbi::likesSended: java.util.Collection = [domain.RelationLike{id=73
```

B.2 - The minimum, the maximum, and the average number of likes per chorbi.

Seleccionamos el tamaño mínimo, máximo y la media del atributo likeReceived que contiene los likes que tiene un Chorbi.

select min(c.likesReceived.size), max(c.likesReceived.size), avg(c.likesReceived.size) from Chorbi c;

```
> select min(c.likesReceived.size), max(c.likesReceived.size), avg(c.likesReceived.si
1 object selected
[0, 2, 1.2]
```

A.1 - The minimum, the maximum, and the average number of chirps that a chorbi receives from other chorbies.

Seleccionamos el tamaño mínimo, máximo y medio del atributo recieved que nos dice el número de chirps recibidos por Chorbi.

select min(c.received.size), max(c.received.size), avg(c.received.size) from Chorbi c;

```
> select min(c.received.size), max(c.received.size), avg(c.received.size) from Chorbi
1 object selected
[0, 2, 0.8]
```

A.2 - The minimum, the maximum, and the average number of chirps that a chorbi sends to other chorbies.

Seleccionamos el tamaño mínimo, máximo y medio del atributo sended que nos dice el número de chirps enviados por Chorbi.

select min(c.sended.size), max(c.sended.size), avg(c.sended.size) from Chorbi c;

```
> select min(c.sended.size), max(c.sended.size), avg(c.sended.size) from Chorbi c;
1 object selected
[0, 3, 0.8]
```

A.3 - The chorbies who have got more chirps.

Vamos a devolver una lista con uno o más Chorbies, seleccionando aquellos/as que han recibido más chirps viendo el atributo received, que nos indica el número de chirps recibidos.

select c from Chorbi c where c.received.size=(select max(c2.received.size) from Chorbi c2);

```
> select c from Chorbi c where c.received.size=(select max(c2.received.size) from Cho
2 objects selected
domain.Chorbi{id=61, version=0}
        domain.DomainEntity::id: int = 61
        domain.DomainEntity::version: int = 0
        domain.Actor::name: java.lang.String = "Nica"
        domain.Actor::surname: java.lang.String = "Griego Barco"
        domain.Actor::email: java.lang.String = "nigriba@gmail.com"
        domain.Actor::phone: java.lang.String = "+34 966995789"
        domain.Actor::userAccount: security.UserAccount = security.UserAccount{id=40,
        domain.Chorbi::picture: java.lang.String = "http://photos1.blogger.com/blogge
        domain.Chorbi::description: java.lang.String = "description2"
        domain.Chorbi::birthDate: java.util.Date = <<1992-02-06>>
        domain.Chorbi::creditCard: domain.CreditCard =
        domain.Chorbi::coordinate: domain.Coordinate =
        domain.Chorbi::banned: java.lang.Boolean = false
        domain.Chorbi::genre: domain.Genre = domain.Genre{id=50, version=0}
        domain.Chorbi::kindRelationship: domain.KindRelationship = domain.KindRelatio
        domain.Chorbi::sended: java.util.Collection = [domain.Chirp{id=67, version=0}
        domain.Chorbi::received: java.util.Collection = [domain.Chirp{id=65, version=
        domain.Chorbi::likesSended: java.util.Collection = [domain.RelationLike{id=73
```

A.4 - The chorbies who have sent more chirps.

Vamos a devolver una lista con uno o más Chorbies, seleccionando aquellos/as que han enviado más chirps viendo el atributo sended, que nos indica el número de chirps enviados.

select c from Chorbi c where c.sended.size=(select max(c2.sended.size) from Chorbi c2);

```
> select c from Chorbi c where c.sended.size=(select max(c2.sended.size) from Chorbi
1 object selected
domain.Chorbi{id=60, version=0}
        domain.DomainEntity::id: int = 60
        domain.DomainEntity::version: int = 0
        domain.Actor::name: java.lang.String = "Juan"
        domain.Actor::surname: java.lang.String = "Vazquez"
        domain.Actor::email: java.lang.String = "juava@gmail.com"
        domain.Actor::phone: java.lang.String = "+34 966845789"
        domain.Actor::userAccount: security.UserAccount = security.UserAccount{id=39,
        domain.Chorbi::picture: java.lang.String = "http://2.bp.blogspot.com/-H6MLqM:
1600/visitante%2Bmisterioso.jpg"
        domain.Chorbi::description: java.lang.String = "description1"
        domain.Chorbi::birthDate: java.util.Date = <<1993-02-06>>
        domain.Chorbi::creditCard: domain.CreditCard =
        domain.Chorbi::coordinate: domain.Coordinate =
        domain.Chorbi::banned: java.lang.Boolean = false
        domain.Chorbi::genre: domain.Genre = domain.Genre{id=49, version=0}
        domain.Chorbi::kindRelationship: domain.KindRelationship = domain.KindRelatic
        domain.Chorbi::sended: java.util.Collection = [domain.Chirp{id=65, version=0}
hirp{id=68, version=0}]
```