MAP: permette di applicare una funzione a una lista senza ciclo for (iTunes.UI.Controller.42)

SORT: per ordinare una lista secondo un attributo dei suoi elementi si usa il landa (iTunes.UI.Controller.33)

WARNING: in caso di inserimento di un elemento errato in un txtField si può raisare un warning (iTunes.UI.Controller.18)

RIEMPIRE UN DD: iTunes.UI.Controller.42

ELEMENTO SELEZIONATO DA UN DD: iTunes.UI.Controller.47

COMPONENTE CONNESSA: iTunes.model.Model.18

COMBINAZIONE DI NODI: baseball.model.Model.93

POSSIBLE QUERIES:

Get all genes:

```
select * from genes
```

Get all chromosome:

```
select distinct Chromosome from genes where Chromosome>0
```

Connection between genes from different chromosome with corr:

```
select g1.GeneID as Gene1, g2.GeneID as Gene2, i.Expression_Corr
  FROM genes g1, genes g2, interactions i
  where  g1.GeneID = i.GeneID1 and g2.GeneID = i.GeneID2
  and g2.Chromosome != g1.Chromosome
  and g2.Chromosome>0
  and g1.Chromosome>0
  group by g1.GeneID, g2.GeneID
```

Connection between chromosome with genes in interaction and sum of corr:

```
select distinct t.c, t.c2, sum(t.Expression_corr) as tot
from (
select g.Chromosome as c,g2.Chromosome as c2, i.*
from interactions i , genes g, genes g2
where i.GeneID1 =g.GeneID and i.GeneID2 =g2.GeneID and g.Chromosome!=g2.Chromosome
and g.Chromosome!=0 and g2.Chromosome!=0
group by g.Chromosome, g2.Chromosome, g.GeneID,g2.GeneID
order by g2.Chromosome , g.Chromosome) t
```

```
group by t.c, t.c2
```

Get all localization:

```
select distinct c.Localization
from classification c
```

Connection between Localization that share genes in interaction with Type (Still check for reverse):

```
select distinct  t.l1, t.l2, t.Type
from (select c.Localization as l1, c2.Localization as l2 , i.`Type`
from classification c , interactions i, classification c2
where i.GeneID1 =c.GeneID and c2.GeneID =i.GeneID2 and c.Localization!=c2.Localization
order by c.Localization, c2.Localization) t
order by t.l1, t.l2
```

Get all functions:

```
select distinct  g.`Function`
from genes g
```

Connection between Function that share genes in interaction with sum of Corr:

```
select g.`Function` , g2.`Function` ,  sum(i.Expression_Corr)
from genes g , genes g2 , interactions i
where g2.GeneID =i.GeneID2 and g.GeneId=i.GeneID1 and g2.`Function` !=g.`Function`
group by g.`Function` , g2.`Function`
order by g.`Function` ,g2.`Function`
```

Connection between Function that share genes in interaction with sum of Corr:

```
select g.`Function` , g2.`Function` ,sum(i.Expression_corr)
from genes g , genes g2 , interactions i
where g2.GeneID =i.GeneID2 and g.GeneId=i.GeneID1 and g2.`Function` !=g.`Function`
group by g.`Function` , g2.`Function`
order by g.`Function` ,g2.`Function`
```