**Queries Documentation**

Query B/1

Especificación

Display the minimum, the maximum, the average, and the standard deviation of the number of complaints per fix-up task.

JPQL Query

select max(f.complaints.size), min(f.complaints.size), avg(f.complaints.size), sqrt(sum(f.complaints.size \* f.complaints.size) / count(f.complaints.size) -(avg(f.complaints.size) \* avg(f.complaints.size))) from FixUpTask f;

Descripción de la query

Recorre todas las fixUpTaks mirando el tamaño de la lista de complaints de cada una y devuelve los valores de número (tamaño) máximo de complaints en una fixUpTasks, mínimo, medio y desviación típica.

Resultado de la query

1 object selected

[2, 0, 1.0, 0.8164965805194777]

Query B/2

Especificación

Display the minimum, the maximum, the average, and the standard deviation of the number of notes per referee report.

JPQL Query

select max(r.notes.size), min(r.notes.size), avg(r.notes.size), sqrt(sum(r.notes.size \* r.notes.size) / count(r.notes.size) -(avg(r.notes.size) \* avg(r.notes.size))) from Report r;

Descripción de la query

Recorre todas los Reports mirando el tamaño de la lista de notas de cada una y devuelve los valores de número (tamaño) máximo de notas en un Reports, mínimo, medio y desviación típica.

Resultado de la query

1 object selected

[1, 0, 0.3333, 0.47140452067318056]

Query B/3

Especificación

Display the ratio of fix-up tasks with a complaint.

JPQL Query

select count(f) from FixUpTask f where f.complaints is not empty;

select count(f) from FixUpTask f;

Pseudo-código

resultSelect1/resultSelect2

Descripción de la query

Devuelve por un lado el número de fixUpTask con complaint y por otro el de fixUpTasks total.

Resultado de la query

*1 object selected*

*2*

*---*

*1 object selected*

*3*

Query B/4

Especificación

The top-three customers in terms of complaints.

JPQL Query

select c from Customer c order by c.complaints.size desc;

Nota: En los servicios coges los 3 primeros elementos de la lista que te devuelve la query usando paginación

Pseudo-código

for(i=0;i<3;i++){

listaDeTop3Customers.add(listaResultadosQuery.get(i));

}

return listaDeTop3Customers;

Descripción de la query

Mira el número de complaints de cada Customer y las devuelve ordenadas de forma descente.

Resultado de la query

*2 objects selected*

*domain.Customer{id=1797, version=0}*

*domain.DomainEntity::id: int = 1797*

*domain.DomainEntity::version: int = 0*

*domain.Actor::name: java.lang.String = "Lorena"*

*domain.Actor::middleName: java.lang.String = "María"*

*domain.Actor::surname: java.lang.String = "Revuelta Berbel"*

*domain.Actor::photo: java.lang.String = "https://media.aweita.larepublica.pe/678x508/aweita/imagen/2018/02/08/noticia-persona-positiva.png"*

*domain.Actor::email: java.lang.String = "lorrevber@mail.com"*

*domain.Actor::phoneNumber: java.lang.String = "+34689945823"*

*domain.Actor::address: java.lang.String = "C/ Villa Crepúsculo, 1 (Dos Hermanas, Sevilla)"*

*domain.Actor::isSuspicious: boolean = true*

*domain.Actor::socialProfiles: java.util.Collection = [domain.SocialProfile{id=1873, version=0}, domain.SocialProfile{id=1874, version=0}]*

*domain.Actor::messageBoxes: java.util.Collection = [domain.MessageBox{id=1842, version=0}, domain.MessageBox{id=1843, version=0}, domain.MessageBox{id=1844, version=0}, domain.MessageBox{id=1845, version=0}]*

*domain.Actor::userAccount: security.UserAccount = security.UserAccount{id=1798, version=0}*

*domain.Customer::score: double = 0.0*

*domain.Customer::endorsements: java.util.Collection = [domain.Endorsement{id=1916, version=0}]*

*domain.Customer::fixUpTasks: java.util.Collection = [domain.FixUpTask{id=1919, version=0}]*

*domain.Customer::complaints: java.util.Collection = [domain.Complaint{id=1923, version=0}]*

*domain.Customer{id=1795, version=0}*

*domain.DomainEntity::id: int = 1795*

*domain.DomainEntity::version: int = 0*

*domain.Actor::name: java.lang.String = "Francisco"*

*domain.Actor::middleName: java.lang.String = null*

*domain.Actor::surname: java.lang.String = "Berrocal Ribas"*

*domain.Actor::photo: java.lang.String = null*

*domain.Actor::email: java.lang.String = "frabelrib@mail.com"*

*domain.Actor::phoneNumber: java.lang.String = null*

*domain.Actor::address: java.lang.String = null*

*domain.Actor::isSuspicious: boolean = false*

*domain.Actor::socialProfiles: java.util.Collection = []*

*domain.Actor::messageBoxes: java.util.Collection = [domain.MessageBox{id=1838, version=0}, domain.MessageBox{id=1839, version=0}, domain.MessageBox{id=1840, version=0}, domain.MessageBox{id=1841, version=0}]*

*domain.Actor::userAccount: security.UserAccount = security.UserAccount{id=1796, version=0}*

*domain.Customer::score: double = 0.0*

*domain.Customer::endorsements: java.util.Collection = [domain.Endorsement{id=1914, version=0}, domain.Endorsement{id=1915, version=0}]*

*domain.Customer::fixUpTasks: java.util.Collection = [domain.FixUpTask{id=1917, version=0}, domain.FixUpTask{id=1918, version=0}]*

*domain.Customer::complaints: java.util.Collection = []*

Query B/5

Especificación

The top-three handy workers in terms of complaints.

JPQL Query

select h from HandyWorker h join h.applications a join a.fixUpTask f group by h order by count(f.complaints.size) desc;

Pseudo-código

for(i=0;i<3;i++){

listaDeTop3HandyWorkers.add(listaResultadosQuery.get(i));

}

return listaDeTop3 HandyWorkers;

Descripción de la query

Desde la clase HandyWorker va hasta la clase FixUpTask mediante join y agrupa por cada HW el número total de complaints que tiene relacionadas en el conjunto de fixUpTasks.

Resultado de la query

*2 objects selected*

*domain.HandyWorker{id=1912, version=0}*

*domain.DomainEntity::id: int = 1912*

*domain.DomainEntity::version: int = 0*

*domain.Actor::name: java.lang.String = "Rosa"*

*domain.Actor::middleName: java.lang.String = null*

*domain.Actor::surname: java.lang.String = "Santacruz Alejo"*

*domain.Actor::photo: java.lang.String = null*

*domain.Actor::email: java.lang.String = "rossanale@mail.com"*

*domain.Actor::phoneNumber: java.lang.String = null*

*domain.Actor::address: java.lang.String = null*

*domain.Actor::isSuspicious: boolean = false*

*domain.Actor::socialProfiles: java.util.Collection = []*

*domain.Actor::messageBoxes: java.util.Collection = [domain.MessageBox{id=1862, version=0}, domain.MessageBox{id=1863, version=0}, domain.MessageBox{id=1864, version=0}, domain.MessageBox{id=1865, version=0}]*

*domain.Actor::userAccount: security.UserAccount = security.UserAccount{id=1870, version=0}*

*domain.HandyWorker::score: double = 0.0*

*domain.HandyWorker::make: java.lang.String = "Handy Worker 1 S.A."*

*domain.HandyWorker::endorsements: java.util.Collection = [domain.Endorsement{id=1916, version=0}]*

*domain.HandyWorker::tutorial: java.util.Collection = []*

*domain.HandyWorker::applications: java.util.Collection = [domain.Application{id=1927, version=0}, domain.Application{id=1928, version=0}, domain.Application{id=1929, version=0}]*

*domain.HandyWorker::finder: domain.Finder = domain.Finder{id=1904, version=0}*

*domain.HandyWorker::curriculum: domain.Curriculum = domain.Curriculum{id=1822, version=0}*

*domain.HandyWorker{id=1913, version=0}*

*domain.DomainEntity::id: int = 1913*

*domain.DomainEntity::version: int = 0*

*domain.Actor::name: java.lang.String = "Esteban"*

*domain.Actor::middleName: java.lang.String = "Coralino"*

*domain.Actor::surname: java.lang.String = "Riesco Motos"*

*domain.Actor::photo: java.lang.String = "http://s1.1zoom.me/b5050/425/GTA\_5\_Men\_Trevor\_Philips\_Formal\_shirt\_518191\_1920x1080.jpg"*

*domain.Actor::email: java.lang.String = "estriemot@mail.com"*

*domain.Actor::phoneNumber: java.lang.String = "+34653384191"*

*domain.Actor::address: java.lang.String = "C/ San Fransokyo, 83 (Espartinas, Sevilla)"*

*domain.Actor::isSuspicious: boolean = true*

*domain.Actor::socialProfiles: java.util.Collection = [domain.SocialProfile{id=1878, version=0}]*

*domain.Actor::messageBoxes: java.util.Collection = [domain.MessageBox{id=1866, version=0}, domain.MessageBox{id=1867, version=0}, domain.MessageBox{id=1868, version=0}, domain.MessageBox{id=1869, version=0}]*

*domain.Actor::userAccount: security.UserAccount = security.UserAccount{id=1871, version=0}*

*domain.HandyWorker::score: double = 0.0*

*domain.HandyWorker::make: java.lang.String = "Handy Worker 2 S.A."*

*domain.HandyWorker::endorsements: java.util.Collection = [domain.Endorsement{id=1914, version=0}, domain.Endorsement{id=1915, version=0}]*

*domain.HandyWorker::tutorial: java.util.Collection = [domain.Tutorial{id=1826, version=0}, domain.Tutorial{id=1828, version=0}]*

*domain.HandyWorker::applications: java.util.Collection = [domain.Application{id=1926, version=0}]*

*domain.HandyWorker::finder: domain.Finder = domain.Finder{id=1905, version=0}*

*domain.HandyWorker::curriculum: domain.Curriculum = domain.Curriculum{id=1812, version=0}*