

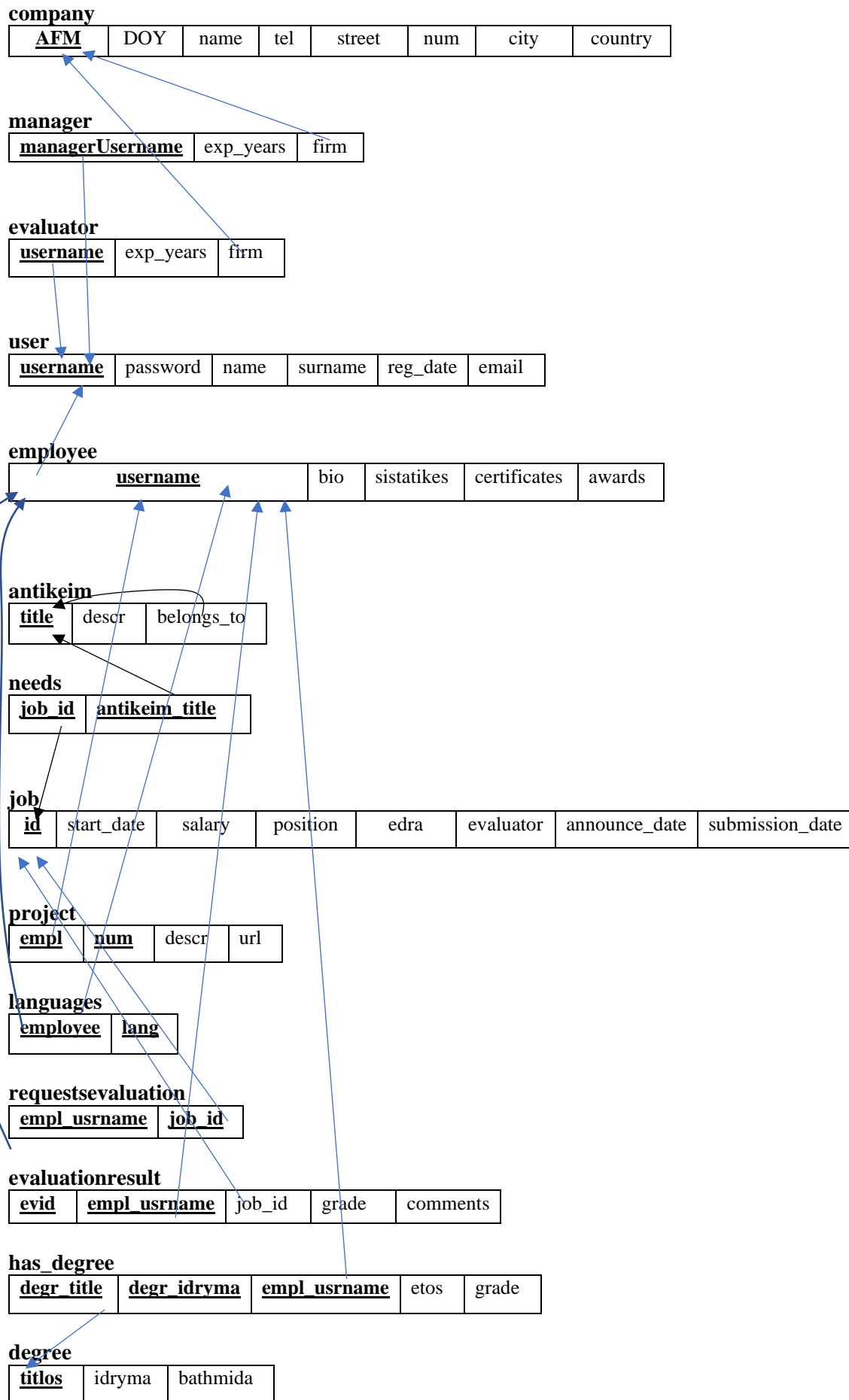
PROJECT ΣΤΟ ΕΡΓΑΣΤΗΡΙΟ ΒΑΣΕΩΝ ΔΕΔΟΜΕΝΩΝ 2020-2021

ΣΠΟΥΔΑΣΤΕΣ:

ΕΡΜΟΛΑΟΣ ΒΑΣΙΛΑΡΟΣ ΑΜ 1047093

ΒΑΣΙΛΗΣ ΤΡΙΠΟΛΙΔΗΣ ΑΜ 236365

## 1 Σχεσιακό Μοντέλο



**employee**

<u>username</u>	bio	sistatikes	certificates	awards
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**ypoboli\_aitiseon**

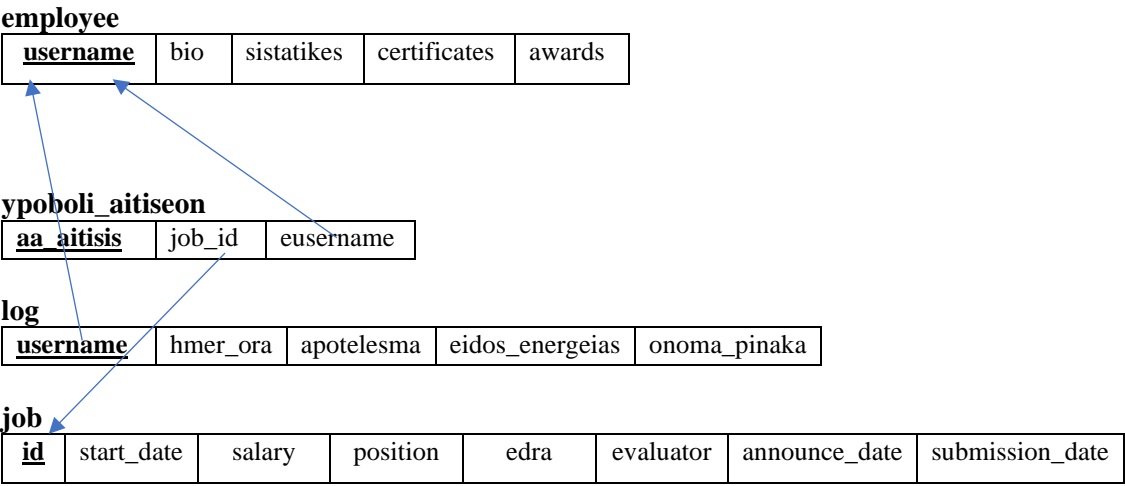
<u>aa_aitisis</u>	job_id	eusername
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**log**

<u>username</u>	hmer_ora	apotelesma	eidos_energeias	onoma_pinaka
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**job**

<u>id</u>	start_date	salary	position	edra	evaluator	announce_date	submission_date
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## 2 Πίνακες

### 2.1 Εντολές Δημιουργίας Πινάκων

```
mysql> drop database if exists staffevaluation;
```

Query OK, 17 rows affected (1.12 sec)

```
mysql> create database staffevaluation;
```

Query OK, 1 row affected (0.03 sec)

```
mysql> use staffevaluation;
```

Database changed

```
mysql> create table company(AFM char(9) primary key not null, DOY varchar(15), name varchar(35), phone bigint(16),street varchar(15),num tinyint(4), city varchar(15),country varchar(15));
```

Query OK, 0 rows affected, 2 warnings (0.01 sec)

```
mysql> create table antikeim(title varchar(35) primary key, descr tinytext, belongs_to varchar(36),constraint b foreign key(belongs_to) references antikeim(title));
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> create table user(username varchar(12) primary key,password varchar(10),name varchar(25),surname varchar(35), reg_date datetime, email varchar(20),constraint c foreign key(username) references manager(username) on delete cascade on update cascade);
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> create table manager(managerusername varchar(12),exp_years tinyint(4),firm char(9),primary key(managerusername,firm), constraint a1 foreign key(firm) references company(AFM), constraint a2 foreign key(managerusername) references user(username));
```

Query OK, 0 rows affected, 1 warning (0.01 sec)

```
mysql> create table employee(username varchar(12) primary key,bio text,sistatikes varchar(35), certificates varchar(35), awards varchar(35));
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> create table evaluator(username varchar(12) primary key, exp_years tinyint(4), firm char(9), constraint d foreign key(username) references manager(username) on delete cascade on update cascade, constraint e foreign key(firm) references company(AFM) on delete cascade on update cascade);
```

Query OK, 0 rows affected, 1 warning (0.01 sec)

```
mysql> create table job(id int(4) primary key, start_date date, salary float(6,1), position varchar(40), edra varchar(45), evaluator varchar(12), announce_date datetime, submission_date date, constraint f foreign key(evaluator) references evaluator(username) on delete cascade on update cascade);
```

Query OK, 0 rows affected, 2 warnings (0.01 sec)

```
mysql> create table project(empl varchar(12), num tinyint(4), descr text, url varchar(60), primary key(empl, num), constraint f foreign key(num) references needs(job_id) on delete cascade on update cascade);
```

Query OK, 0 rows affected, 1 warning (0.01 sec)

```
mysql> create table needs(job_id int(4), antikeim_title varchar(36), primary key(job_id, antikeim_title), constraint g foreign key(antikeim_title) references antikeim(title) on delete cascade on update cascade);
```

Query OK, 0 rows affected, 1 warning (0.01 sec)

```
mysql> create table requestsevaluation(empl_username varchar(12), job_id int(4), primary key(empl_username, job_id), constraint h foreign key(empl_username) references employee(username) on delete cascade on update cascade, constraint j foreign key(job_id) references job(job_id) on delete cascade on update cascade);
```

Query OK, 0 rows affected, 1 warning (0.03 sec)

```
mysql> create table languages(employee varchar(12) primary key, lang set('EN', 'FR', 'SP', 'GR'), constraint k foreign key(employee) references employee(username) on delete cascade on update cascade);
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> create table degree(titlos varchar(50), idryma varchar(40), primary key(titlos, idryma));
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> create table has_degree(degr_title varchar(50), degr_idryma varchar(40), empl_username varchar(12), etos year(4), grade float(3,1), primary key(degr_title,degr_idryma,empl_username),constraint m foreign key(degr_title) references degree(title),constraint n foreign key(empl_username) references employee(username));
```

Query OK, 0 rows affected, 2 warnings (0.01 sec)

```
mysql> create table evaluationresult(Evld int(4) not null auto_increment, empl_username varchar(12), job_id int(4), grade int(4), comments varchar(255),primary key(evld,empl_username), constraint p foreign key(empl_username) references employee(username), constraint q foreign key(job_id) references job(job_id));
```

Query OK, 0 rows affected, 3 warnings (0.01 sec)

```
mysql> create table evaluation_process(aa int primary key,job_id int,  
-> bathmos_synenteyxis ENUM('0','1','2','3','4'),sxolia_synenetyxis text,xaraktirismos_synenteyxis ENUM('1','2','3'),  
-> bathmos_report ENUM('0','1','2','3','4'), sxolia_report text,xaraktirismos_report ENUM('1','2','3'),  
-> bathmos_loipon ENUM('0','1','2'),sxolia_loipon text,xaraktirismos_loipon ENUM('1','2','3'),  
-> username_eval varchar(12),  
-> username_emp varchar(12),  
-> teliko_apotelesma float (3,1),  
-> constraint z1 foreign key(username_eval) references evaluator(username),  
-> constraint z2 foreign key(username_emp) references employee(username),  
-> constraint z3 foreign key(job_id) references job(job_id));
```

Query OK, 0 rows affected, 1 warning (0.01 sec)

```
mysql> create table ypoboli_aitiseon(aa_aitisis int primary key auto_increment,job_id int, eusername varchar(12), constraint t foreign key(job_id) references job(job_id),constraint z foreign key(eusername) references employee(username));
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> create table log(username varchar(12),hmer_ora datetime,apotelesma varchar(20),eidos_energeias varchar(20),onoma_pinaka varchar(20));  
Query OK, 0 rows affected (0.01 sec)
```

## 2.2 Εντολές Εισαγωγής Εγγραφών

```
insert into company values('123456123','A Patras','Kataskeyasti Patras','2610-394509','Korinthou',10,'Patras','Greece');  
  
insert into company values('123456888','B Patras','Emporio Sidiroy Patras','2610-324317','Avlonos',20,'Patras','Greece');  
  
insert into company values('100045608','Pyrgou','Emporio Domion Ylikon','23610-52455','Korinthou',87,'Patras','Greece');  
  
  
  
insert into user values('admin','admin','Manos','Giannakopoulos','2020-1-1','manos@gmail.com');  
  
insert into user values('arg','000','Nikos','Argyriadis','2020-12-1','argiriad@gmail.com');  
  
insert into user values('manolop','657','Kostas','Manolopoulos','2020-11-1','manolop@gmail.com');  
  
insert into user values('giannakoy','123','Maria','Giannakou','2020-11-1','gianakou@gmail.com');  
  
insert into user values('dimop','233','Giorgos','Dimopoulos','2019-11-10','dimop$hotmail.com');  
  
insert into user values('delig','999','Andreas','Deligiannis','2018-6-10','delig$hotmail.com');  
  
insert into user values('dalak','551','Anna','Dalaka','2017-1-9','dalak$hotmail.com');  
  
insert into user values('papan','112','Nikos','Papanikolaou','2020-1-1','argiriad@hotmail.com');  
  
insert into user values('papag','555','Kostas','Papageorgiou','2020-9-1','papag@hotmail.com');  
  
insert into user values('papad','563','Vasilis','Papdionysiou','2020-8-1','papad@gmail.com');  
  
insert into user values('xristop','345','Eleni','Papanikolaou','2020-51-1','xristop@gmail.com');  
  
insert into user values('xorafop','346','Anna','Papageorgiou','2020-7-1','xorafop@gmail.com');  
  
insert into user values('karela','347','Sofia','Karela','2020-4-1','karela@gmail.com');  
  
  
  
insert into manager values('papan',10,'123456123');  
  
insert into manager values('papag',8,'123456888');
```

insert into manager values('papad',7,'100045608');

insert into employee values('arg','Exei megali Proyphresia se networks','exei polles sistatikes','arg\_certificates.pdf','arg\_awards.pdf');

insert into employee values('manolop','Exei mikri Proyphresia se networks','exei liges sistatikes','manolop\_certificates.pdf','manolop\_awards.pdf');

insert into employee values('giannakoy','Exei sxetika megali Proyphresia se Databases','exei arrketes sistatikes','giannakoy\_certificates.pdf','giannakoy\_awards.pdf');

insert into employee values('dimop','Exei Proyphresia se Databases','exei sistatikes apo proigoumenes douleis','dimop\_certificates.pdf','dimop\_awards.pdf');

insert into employee values('delig','Exei doulepsei poly se ierarxikes Databases','exei liges sistatikes','delig.pdf','delig.pdf');

insert into employee values('dalak','Exei empeiria se Databases kai Networks','Polles sistatikes','dalak\_certificates.pdf','dalak\_awards.pdf');

insert into employee values('karela','Enai i pio kali evaluator','Polles systatikes','karela\_certificates.pdf','karela\_awards.pdf');

insert into employee values('xristop','Enai i pio kali evaluator','Liges systatikes','xristop\_certificates.pdf','xristop\_awards.pdf');

insert into employee values('xorafop','Enai i pio kali evaluator','Polles systatikes','xorafop\_certificates.pdf','xorafop\_awards.pdf');

insert into evaluator values('xristop',10,'123456123');

insert into evaluator values('xorafop',20,'123456888');

insert into evaluator values('karela',15,'100045608');

insert into evaluator values('karela',15,'123456888');

insert into antikeim values('Networks','Root Element',NULL);

insert into antikeim values('Local Area Networks','Second Level Element','Networks');

insert into antikeim values('Wide Area Networks','Second Level Element','Networks');

insert into antikeim values('Metropolitan Area Networks','Second Level Element','Networks');

insert into antikeim values('Databases','Root Element',NULL);

insert into antikeim values('MySQL','Second Level Element','Databases');

insert into antikeim values('SQL Server','Second Level Element','Databases');



```
insert into job values(1,'2020-1-1',1500,'Programmer','Patra','xristop','2020-1-2','2020-1-5');
insert into job values(2,'2020-2-1',1600,'Programmer','Athina','xristop','2020-2-3','2020-2-7');
insert into job values(3,'2020-3-1',1000,'Analyst','Pyrgos','xorafop','2020-3-6','2020-3-8');
insert into job values(4,'2020-4-1',1100,'Analyst','Thessaloniki','xorafop','2020-4-7','2020-4-10');
insert into job values(5,'2020-5-1',1600,'HelpDesk','Pyrgos','karela','2020-3-6','2020-5-8');
insert into job values(6,'2020-6-11',2000,'Assistant Manager','Patra','xorafop','2020-6-17','2020-6-27');
insert into job values(7,'2020-7-13',2200,'Assistant Manager','Patra','xristop','2020-7-17','2020-7-21');
```

```
insert into project values('arg',1,'Kataskeyi Topikou Diktyou','http://www.ceid.upatras.gr');
insert into project values('arg',2,'Kataskeyi WAN','http://www.ceid.upatras.gr');
insert into project values('manolop',1,'Kataskeyi sxesiakou RDBMS','http://www.ceid.upatras.gr');
insert into project values('manolop',2,'Kataskeyi ierarxikou RDBMS','http://www.ceid.upatras.gr');
insert into project values('arg',3,'Kataskeyi Topikou Diktyou','http://www.diktya.gr');
insert into project values('arg',4,'Kataskeyi WAN','http://www.ceid.upatras.gr');
insert into project values('manolop',5,'Kataskeyi sxesiakou RDBMS','http://www.ece.upatras.gr');
insert into project values('manolop',6,'Kataskeyi dentrikou RDBMS','http://www.ece.upatras.gr');
insert into project values('delig',1,'Epektasi Database Etaireias','http://www.database.gr');
insert into project values('dalak',1,'Epektasi Diktyou Etaireias','http://www.diktya.gr');
```

```
insert into needs values(1,'Networks');
insert into needs values(2,'Networks');
insert into needs values(3,'Local Area Networks');
insert into needs values(3,'Wide Area Networks');
insert into needs values(4,'Local Area Networks');
```

```
insert into needs values(5,'Databases');
```

```
insert into needs values(5,'SQL Server');
```

```
insert into evaluationresult values('arg',1,5,'Ta pige metria');
```

```
insert into evaluationresult values('manolop',2,9,'Ta pige arista');
```

```
insert into evaluationresult values('giannakoy',3,3,'Ta pige xalia');
```

```
insert into evaluationresult values('dimop',1,10,'Aristi eikona');
```

```
insert into evaluationresult values('delig',2,6,'Ta pige sxerika kala');
```

```
insert into evaluationresult values('dalak',3,7,'Ta pige kala');
```

```
insert into degree values('AEI','Panepistimio Patras');
```

```
insert into degree values('Master','Panepistimio Patras');
```

```
insert into degree values('PHD','Panepistimio Patras');
```

```
insert into degree values('AEI','Panepistimio Athinas');
```

```
insert into degree values('Master','Panepistimio Athinas');
```

```
insert into degree values('PHD','Panepistimio Athinas');
```

```
insert into has_degree values('AEI','Panepistimio Athinas','arg',2015,6.5);
```

```
insert into has_degree values('Master','Panepistimio Patras','arg',2018,6.5);
```

```
insert into has_degree values('AEI','Panepistimio Athinas','manolop',2019,6);
```

```
insert into has_degree values('PHD','Panepistimio Athinas','giannakoy',2019,8);
```

```
insert into has_degree values('AEI','Panepistimio Athinas','dimop',2020,5);
```

```
insert into has_degree values('Master','Panepistimio Patras','delig',2018,7.5);
```

```
insert into has_degree values('Master','Panepistimio Patras','dalak',2017,8.5);
```

```
insert into has_degree values('AEI','Panepistimio Patras','dalak',2015,5.5);
```

```
insert into languages values('arg','EN');  
insert into languages values('manolop','GR');  
insert into languages values('giannakoy','FR,GR');  
insert into languages values('dimop','SP,GR');  
insert into languages values('delig','EN,SP');  
insert into languages values('dalak','EN,GR');
```

```
insert into requestsevaluation values('arg',1);  
insert into requestsevaluation values('arg',2);  
insert into requestsevaluation values('manolop',2);  
insert into requestsevaluation values('manolop',3);  
insert into requestsevaluation values('giannakoy',3);  
insert into requestsevaluation values('giannakoy',4);  
insert into requestsevaluation values('dimop',5);  
insert into requestsevaluation values('dimop',6);  
insert into requestsevaluation values('delig',1);  
insert into requestsevaluation values('delig',6);  
insert into requestsevaluation values('delig',3);  
insert into requestsevaluation values('dalak',2);  
insert into requestsevaluation values('dalak',4);  
insert into requestsevaluation values('dalak',5);
```

```
insert into ypoboli_aitiseon values('6','arg');  
insert into ypoboli_aitiseon values('7','manolop');
```

```
insert into ypoboli_aitiseon values(",6,'arg');
```

```
insert into ypoboli_aitiseon values(",7,'manolop');
```

```
insert into ypoboli_aitiseon values(",8,'manolop');
```

```
insert into evaluation_process values(1,1,3,'Metria Synenetyxi',3,3,'O dieythintis exei metria eikona',3,3,'Exei mono ptyxio kai den exei systatikes oute diakriseis',null,'karela','arg',null);
```

```
insert into evaluation_process values(2,2,3,'Kali Synenetyxi',2,2,'O dieythintis exei thetiki gnomi',2,1,'Exei Master kai 2 systatikes alla oxi diakriseis',1,'karela','arg',null);
```

```
insert into evaluation_process values(3,3,4,'Aristi Synenetyxi',3,4,'O dieythintis exei aristi gnomi',3,3,'Exei PHD ptyxio kai polles systatikes kai evresitexnia',1,'karela','manolop',null);
```

```
insert into evaluation_process values(4,1,4,'Poly Kali Synenetyxi',3,4,'O dieythintis ton proteinei gia tin thesi ayti',3,4,'Exei Master,PHD',null,'karela','manolop',null);
```

```
insert into evaluation_process values(5,3,2,null,3,null,'O dieythintis den ton proteinei gia tin thesi',3,4,'Exei Master,PHD',null,'karela','arg',null);
```

```
insert into evaluation_process values(6,1,1,'Elleipis Synenetyxi',1,2,'O dieythintis den exei kalh eikona',1,2,'Exei Ptyxio',2,'karela','giannakoy',null);
```

## 2.3 Μέρος Γ. Stored Procedures

### 2.3.1 Stored Procedure 1

```
drop procedure if exists proc1;
```

```
delimiter $
```

```
create procedure proc1(IN ename varchar(25),IN esurname varchar(35))
```

```
begin
```

```
    declare nf int;
```

```
    declare ar_aitisis int;
```

```
    declare jid int;
```

```
    declare empl varchar(12);
```

```
declare eval varchar(12);
```

```
declare xs text;
```

```
declare xr text;
```

```
declare xl text;
```

```
declare uname varchar(25);
```

```
declare usname varchar(35);
```

```
declare bcursor cursor for select distinct  
evaluation_process.aa,evaluation_process.job_id,evaluation_process.username_emp,evaluation_process.username_eval,evaluation_process.xarakterismos_synenteyxis,xarakteris  
mos_report,xarakterismos_loipon,user.name,user.surname
```

```
from user,employee,evaluation_process,evaluator,requestsevaluation
```

```
where user.username=employee.username and employee.username=requestsevaluation.empl_username and
```

```
employee.username=evaluation_process.username_emp and
```

```
evaluator.username=evaluation_process.username_eval and user.name=ename and user.surname=esurname;
```

```
declare continue handler for not found set nf=1;
```

```
set nf=0;
```

```
open bcursor;
```

```
repeat
```

```
    fetch bcursor into ar_aitisis,jid,empl,eval,xs,xr,xl,uname,usname;
```

```
    if (nf=0) then
```

```
        if (xs is not null) and (xr is not null) and (xl is not null) then
```

```
            select concat("Completed Evaluation from Evaluator: ",eval," for Employee: ",uname," ",usname," for job: ",jid);
```

```
        else
```

```
            select concat("Evaluation in Progress from Evaluator: ",eval," for Employee: ",uname," ",usname," for job: ",jid);
```

```
        end if;
```

```
end if;  
until (nf=1)  
end repeat;  
end$  
delimiter ;
```

### Αποτελέσματα Εκτέλεσης 1<sup>ης</sup> Stored Procedure

#### 1<sup>η</sup> εκτέλεση

```
mysql> call proc1('Nikos','Argyriadis');  
+-----+  
| concat("Evaluation in Progress from Evaluator: ",eval," for Employee: ",uname," ",usname," for job: ",jid) |  
+-----+  
| Evaluation in Progress from Evaluator: karela for Employee: Nikos Argyriadis for job: 1 |  
+-----+  
1 row in set (0.00 sec)  
  
+-----+  
| concat("Completed Evaluation from Evaluator: ",eval," for Employee: ",uname," ",usname," for job: ",jid) |  
+-----+  
| Completed Evaluation from Evaluator: karela for Employee: Nikos Argyriadis for job: 2 |  
+-----+  
1 row in set (0.00 sec)  
  
+-----+  
| concat("Evaluation in Progress from Evaluator: ",eval," for Employee: ",uname," ",usname," for job: ",jid) |  
+-----+  
| Evaluation in Progress from Evaluator: karela for Employee: Nikos Argyriadis for job: 3 |  
+-----+  
1 row in set (0.01 sec)  
  
Query OK, 0 rows affected (0.01 sec)
```

#### 2<sup>η</sup> εκτέλεση

```
mysql> call proc1('Kostas','Manolopoulos');
+-----+
| concat("Completed Evaluation from Evaluator: ",eval," for Employee: ",uname," ",usname," for job: ",jid) |
+-----+
| Completed Evaluation from Evaluator: karela for Employee: Kostas Manolopoulos for job: 3 |
+-----+
1 row in set (0.00 sec)

+-----+
| concat("Evaluation in Progress from Evaluator: ",eval," for Employee: ",uname," ",usname," for job: ",jid) |
+-----+
| Evaluation in Progress from Evaluator: karela for Employee: Kostas Manolopoulos for job: 1 |
+-----+
1 row in set (0.01 sec)

Query OK, 0 rows affected (0.02 sec)
```

### 3<sup>η</sup> εκτέλεση

```
mysql> call proc1('Maria','Giannakou');
+-----+
| concat("Completed Evaluation from Evaluator: ",eval," for Employee: ",uname," ",usname," for job: ",jid) |
+-----+
| Completed Evaluation from Evaluator: karela for Employee: Maria Giannakou for job: 1 |
+-----+
1 row in set (0.00 sec)

Query OK, 0 rows affected (0.01 sec)
```

### 2.3.2 Stored Procedure 2

drop procedure if exists proc2;

delimiter \$

create procedure proc2(IN jbdid int,IN evalusr varchar(12))

begin

declare nf int;

declare ar\_aitisis int;

declare jid int;

declare empl varchar(12);

declare eval varchar(12);

declare bs int;

declare br int;

declare bl int;

declare uname varchar(25);

declare usname varchar(35);

declare final\_grade float(3,1);

declare tp float(3,1);

declare xs text;

declare bcursor cursor for select distinct

evaluation\_process.aa,evaluation\_process.job\_id,evaluation\_process.username\_emp,evaluation\_process.username\_eval,evaluation\_process.bathmos\_synenteyxis,evaluation\_process.bathmos\_report,evaluation\_process.bathmos\_loipon,evaluation\_process.teliko\_apotelesma,evaluation\_process.sxolia\_synenetyxis from user,employee,evaluation\_process,evaluator,requestsevaluation where user.username=employee.username and employee.username=requestsevaluation.empl\_username and employee.username=evaluation\_process.username\_emp and evaluation\_process.username\_eval=evalusr and evaluation\_process.job\_id=jbdid;

declare continue handler for not found set nf=1;

set nf=0;

open bcursor;

repeat



```

fetch bcursor into ar_aitisis,jid,empl,eval,bs,br,bl,tp,xs;

select ar_aitisis,jid,empl,eval,bs,br,bl,tp,xs;

if (nf=0) then
    if (bs is not null) and (br is not null) and (bl is not null) and (tp is null) then
        set final_grade=(bs+br+bl)/3;
        update evaluation_process set teliko_apotelesma=final_grade where evaluation_process.username_eval=evalusr and evaluation_process.job_id=jbdid
        and evaluation_process.username_emp=empl;
        insert into evaluationresult values(",empl,jid,final_grade,xs);
        select concat("Final Evaluation Grade from Evaluator: ",eval," for Employee with username: ",empl," for job: ",jid," is: ",final_grade);
    else
        set final_grade=(bs+br+bl)/3;
        if (bs is not null) and (br is not null) and (bl is not null) and (tp is not null) then
            select concat("Evaluation from Evaluator: ",eval," for Employee with username: ",empl," for job: ",jid," has already grade ",final_grade);
        end if;
    end if;
end if;

until (nf=1)
    end repeat;
end$ delimiter ;

```

## Αποτελέσματα Εκτέλεσης 2<sup>ης</sup> Stored Procedure

### 1<sup>η</sup> εκτέλεση

```
mysql> call proc2(1,'karela');
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| ar_aitisis | jid | empl | eval | bs | br | bl | tp | xs |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|          1 |    1 | arg  | karela | 3 | 3 | 3 | 3.0 | Metria Synenetyxi |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| concat("Evaluation from Evaluator: ",eval," for Employee with username: ",empl," for job: ",jid," has already grade ",final_grade) |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Evaluation from Evaluator: karela for Employee with username: arg for job: 1 has already grade 3.0 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.01 sec)
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| ar_aitisis | jid | empl | eval | bs | br | bl | tp | xs |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|          4 |    1 | manolop | karela | 4 | 4 | 0 | 2.7 | Poly Kali Synenetyxi |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.01 sec)
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| concat("Evaluation from Evaluator: ",eval," for Employee with username: ",empl," for job: ",jid," has already grade ",final_grade) |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Evaluation from Evaluator: karela for Employee with username: manolop for job: 1 has already grade 2.7 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.02 sec)
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| ar_aitisis | jid | empl | eval | bs | br | bl | tp | xs |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|          6 |    1 | giannakoy | karela | 1 | 2 | 2 | 1.7 | Elleipis Synenetyxi |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.02 sec)
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| concat("Evaluation from Evaluator: ",eval," for Employee with username: ",empl," for job: ",jid," has already grade ",final_grade) |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Evaluation from Evaluator: karela for Employee with username: giannakoy for job: 1 has already grade 1.7 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.03 sec)
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| ar_aitisis | jid | empl | eval | bs | br | bl | tp | xs |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|          6 |    1 | giannakoy | karela | 1 | 2 | 2 | 1.7 | Elleipis Synenetyxi |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.04 sec)
```

```
Query OK, 0 rows affected (0.05 sec)
```

## 2<sup>η</sup> εκτέλεση

```
mysql> call proc2(2,'karela');
```

ar_aitisis	jid	empl	eval	bs	br	bl	tp	xs
2	2	arg	karela	3	2	1	NULL	Kali Synenetyxi

1 row in set (0.00 sec)

```
concat("Final Evaluation Grade from Evaluator: ",eval," for Employee with username: ",empl," for job: ",jid," is: ",final_grade)
```

Final Evaluation Grade from Evaluator: karela for Employee with username: arg for job: 2 is: 2.0

1 row in set (0.00 sec)

ar_aitisis	jid	empl	eval	bs	br	bl	tp	xs
2	2	arg	karela	3	2	1	NULL	Kali Synenetyxi

1 row in set (0.01 sec)

Query OK, 0 rows affected (0.01 sec)

### 2.3.3 Stored Procedure 3

drop procedure if exists proc3;

delimiter \$

create procedure proc3(IN jbdid int)

begin

declare nf int;

declare ar\_aitisis int;

declare jid int;

declare empl varchar(12);

declare eval varchar(12);

declare bs int;

declare br int;

declare bl int;

declare uname varchar(25);

declare usname varchar(35);

declare final\_grade float(3,1);

declare ta float(3,1);

declare counter int;

declare bcursor cursor for select distinct evaluation\_process.aa,evaluation\_process.job\_id,evaluation\_process.username\_emp, evaluation\_process.username\_eval, evaluation\_process.teliko\_apotelesma from user,employee,evaluation\_process,evaluator,requestsevaluation where user.username=employee.username and employee.username=requestsevaluation.empl\_username and employee.username=evaluation\_process.username\_emp and evaluation\_process.job\_id=jbdid;

declare bcursor2 cursor for select distinct evaluation\_process.aa,evaluation\_process.job\_id, evaluation\_process.username\_emp,evaluation\_process.username\_eval, evaluation\_process.teliko\_apotelesma from user,employee,evaluation\_process,evaluator,requestsevaluation where user.username=employee.username and employee.username=requestsevaluation.empl\_username and employee.username=evaluation\_process.username\_emp and evaluation\_process.job\_id=jbdid order by evaluation\_process.teliko\_apotelesma desc;

declare bcursor3 cursor for select distinct evaluation\_process.aa,evaluation\_process.job\_id, evaluation\_process.username\_emp, evaluation\_process.username\_eval, evaluation\_process.teliko\_apotelesma from user, employee, evaluation\_process,evaluator, requestsevaluation where user.username=employee.username and employee.username=requestsevaluation.empl\_username and employee.username=evaluation\_process.username\_emp and evaluation\_process.job\_id=jbdid;

```
declare continue handler for not found set nf=1;

set nf=0;

set counter=0;

open bcursor;

repeat
    fetch bcursor into ar_aitisis,jid,empl,eval,ta;
    if (nf=0) then
        if (ta is null) then
            set counter=counter+1;
        end if;
    end if;
until (nf=1)
end repeat;

select 'Counter =',counter;

if (counter=0) then
    select 'ORISTIKOPOIHMENOI PINAKES';
    set nf=0;
    open bcursor2;
    repeat
        fetch bcursor2 into ar_aitisis,jid,empl,eval,ta;
        if (nf=0) then
            if (ta is not null) then
                select ar_aitisis,jid,empl,eval,ta;
            end if;
        end if;
    end if;
```

```

        until (nf=1)
        end repeat;
    end if;
if (counter<>0) then
    select 'AXIOLOGHSH SE EXELIXI. EKKREMOUN AKOMA: ',counter;
    set nf=0;
    open bcursor3;
    repeat
        fetch bcursor3 into ar_aitisis,jid,empl,eval,ta;
        select ar_aitisis,jid,empl,eval,ta;
        select '-----';
        if (nf=0) then
            if (ta is not null) then
                select ar_aitisis,jid,empl,eval,ta;
            end if;
        end if;
    until (nf=1)
    end repeat;
end if;
end$
delimiter ;

```

### Αποτελέσματα Εκτέλεσης 3<sup>ης</sup> Stored Procedure

#### 1<sup>η</sup> εκτέλεση

```
mysql> call proc3(1);
```

Counter =	counter
-----------	---------

```

+-----+-----+
| Counter = |          0 |
+-----+-----+
1 row in set (0.00 sec)

```

```

+-----+-----+
| ORISTIKOPOIHMENOI PINAKES |
+-----+-----+
| ORISTIKOPOIHMENOI PINAKES |
+-----+-----+
1 row in set (0.00 sec)

```

ar_aitisis	jid	empl	eval	ta
1	1	arg	karela	3.0

```

+-----+-----+-----+-----+-----+
1 row in set (0.01 sec)

```

ar_aitisis	jid	empl	eval	ta
4	1	manolop	karela	2.7

```

+-----+-----+-----+-----+-----+
1 row in set (0.01 sec)

```

ar_aitisis	jid	empl	eval	ta
6	1	giannakoy	karela	1.7

```

+-----+-----+-----+-----+-----+
1 row in set (0.01 sec)

```

```
Query OK, 0 rows affected (0.02 sec)
```

## 2<sup>η</sup> εκτέλεση

```
mysql> call proc3(2);
+-----+-----+
| Counter = | counter |
+-----+-----+
| Counter = |      0 |
+-----+-----+
1 row in set (0.00 sec)

+-----+
| ORISTIKOPOIHMENOI PINAKES |
+-----+
| ORISTIKOPOIHMENOI PINAKES |
+-----+
1 row in set (0.00 sec)

+-----+-----+-----+-----+-----+
| ar_aitisis | jid | empl | eval | ta |
+-----+-----+-----+-----+-----+
|          2 |    2 | arg  | karela | 2.0 |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

Query OK, 0 rows affected (0.01 sec)
```



## 2.4 Μέρος Δ. Triggers

### 2.4.1 Trigger 1 στον πίνακα job

drop trigger if exists jobtrig1;

delimiter \$

create trigger jobtrig1 before insert on job

for each row

begin

    DECLARE jid int;

    SET jid = (SELECT job.id FROM job WHERE job.id = NEW.id);

    IF jid IS NOT NULL THEN

        insert into log values(NEW.evaluator,now(),'Failure','insert','job');

        SIGNAL SQLSTATE VALUE '45000' SET MESSAGE\_TEXT = 'INSERT on JOB failed due to duplicate JOB ID';

    ELSE

        insert into log values(NEW.evaluator,now(),'Success','insert','job');

    END IF;

end\$

delimiter ;

#### Αποτελέσματα 2 Εκτελέσεων 1<sup>ου</sup> Trigger του πίνακα Job

```
mysql> insert into job values(8,'2020-7-30',2200,'Main Manager','Patra','xristop','2020-8-1','2020-8-2');
Query OK, 1 row affected (0.00 sec)

mysql> insert into job values(8,'2020-7-31',2200,'Second Main Manager','Patra','karela','2020-8-2','2020-8-3');
ERROR 1644 (45000): INSERT on JOB failed due to duplicate JOB ID
```

### 2.4.2 Trigger 2 στον πίνακα job

drop trigger if exists jobtrig2;

delimiter \$

create trigger jobtrig2 before update on job

for each row

begin

IF new.id=old.id and new.start\_date=old.start\_date and new.salary=old.salary and new.position=old.position and new.edra=old.edra and new.evaluator=old.evaluator  
and new.announce\_date=old.announce\_date and new.submission\_date=old.submission\_date then

insert into log values(NEW.evaluator,now(),'Failure','update','job');

SIGNAL SQLSTATE VALUE '45000' SET MESSAGE\_TEXT = 'UPDATE on JOB failed due to duplicate Elements';

ELSE

insert into log values(NEW.evaluator,now(),'Success','update','job');

END IF;

IF (old.id <> new.id) THEN

insert into log values(NEW.evaluator,now(),'Failure','update','Job');

SIGNAL SQLSTATE VALUE '45000' SET MESSAGE\_TEXT = 'UPDATE on Jib failed due to EXISTING JOB ID';

end if;

end\$

delimiter ;

### Αποτελέσματα 2 Εκτελέσεων 2<sup>ου</sup> Trigger του πίνακα Job

```
mysql> update job set start_date='2020-07-21',salary=2200.0,position='Main Manager',edra='Patra',evaluator='xristop',announce_date='2020-08-01 00:00:00',submission_date='2020-08-02' where id=1;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> update job set id=1 where id=1;
ERROR 1644 (45000): UPDATE on JOB failed due to duplicate Elements
```

### 2.4.3 Trigger 3 στον πίνακα job

drop trigger if exists jobtrig3;

delimiter \$

create trigger jobtrig3 before delete on job

for each row

begin

IF (EXISTS(SELECT count(\*) FROM job inner join requestsevaluation on id=job\_id)) THEN

insert into log values(OLD.evaluator,now(),'Failure','delete','job');

SIGNAL SQLSTATE VALUE '45000' SET MESSAGE\_TEXT = 'DELETE on JOB failed due to EXISTENT REQUESTS EVALUTTION FOR THIS JOB';

else

insert into log values(old.evaluator,now(),'Success','delete','job');

end if;

IF (EXISTS(SELECT count(\*) FROM job inner join evaluationresult on id=job\_id)) THEN

insert into log values(OLD.evaluator,now(),'Failure','delete','job');

SIGNAL SQLSTATE VALUE '45000' SET MESSAGE\_TEXT = 'DELETE on JOB failed due to EXISTENT EVALUTTION RESULTS FOR THIS JOB';

else

insert into log values(old.evaluator,now(),'Success','delete','job');

end if;

end\$

delimiter ;

#### Αποτελέσματα 1 Δκτέλεσης 3<sup>ου</sup> Trigger του πίνακα Job

```
mysql> delete from job where id=4;  
ERROR 1644 (45000): DELETE on JOB failed due to EXISTENT REQUESTS EVALUTTION FOR THIS JOB
```

#### 2.4.4 Trigger 1 στον πίνακα Employee

drop trigger if exists employeetrig1;

delimiter \$

create trigger employeetrig1 before insert on employee

for each row

begin

DECLARE jeuname varchar(12);

SET jeuname = (SELECT employee.username FROM employee WHERE employee.username = NEW.username);

IF jeuname IS NOT NULL THEN

insert into log values(NEW.username,now(),'Failure','insert','employee');

SIGNAL SQLSTATE VALUE '45000' SET MESSAGE\_TEXT = 'INSERT on Employee failed due to duplicate EMPLOYEE USERNAME';

ELSE

insert into log values(NEW.username,now(),'failure','insert','Employee');

END IF;

end\$

delimiter ;

#### Αποτελέσματα 2 Εκτελέσεων 1<sup>ου</sup> Trigger του πίνακα Employee

```
mysql> insert into employee values('basil','Einaí kalos ypallilos','Polles systatikes','basil_certificates.pdf','basil_awards.pdf');
Query OK, 1 row affected (0.00 sec)

mysql> insert into employee values('dimop','Einaí metrios ypallilos','Liges systatikes','dimop_certificates.pdf','dimop_awards.pdf');
ERROR 1644 (45000): INSERT on Employee failed due to duplicate EMPLOYEE USERNAME
```

#### 2.4.5 Trigger 2 στον πίνακα Employee

drop trigger if exists employeetrig2;

delimiter \$

create trigger employeetrig2 before update on employee

for each row

begin

IF new.username=old.username and new.bio=old.bio and new.sistatikes=old.sistatikes and new.certificates=old.certificates and new.awards=old.awards then

insert into log values(NEW.username,now(),'Failure','update','Employee');

SIGNAL SQLSTATE VALUE '45000' SET MESSAGE\_TEXT = 'UPDATE on Employee failed due to duplicate Elements';

ELSE

insert into log values(NEW.username,now(),'Success','update','Employee');

END IF;

IF (old.username <> new.username) THEN

insert into log values(NEW.username,now(),'Failure','update','Employee');

SIGNAL SQLSTATE VALUE '45000' SET MESSAGE\_TEXT = 'UPDATE on Employee failed due to EXISTING USERNAME';

end if;

end\$

delimiter ;

#### Αποτελέσματα 2 Εκτελέσεων 2<sup>ου</sup> Trigger του πίνακα Employee

```
mysql> update employee set username='basilis' where username='basil';  
ERROR 1644 (45000): UPDATE on Employee failed due to EXISTING USERNAME
```

```
mysql> update employee set sistatikes='None' where username='basil';  
Query OK, 1 row affected (0.00 sec)
```

#### 2.4.6 Trigger 3 στον πίνακα Employee

drop trigger if exists employeetrig3;

delimiter \$

create trigger employeetrig3 before delete on employee

for each row

begin

IF (EXISTS(SELECT count(\*) FROM employee inner join requestsevaluation on username=empl\_username)) THEN

insert into log values(OLD.username,now(),'Failure','delete','employee');

SIGNAL SQLSTATE VALUE '45000' SET MESSAGE\_TEXT = 'DELETION FROM EMPLOYEE failed due to EXISTING EVALUATION REQUESTS FOR THIS EMPLOYEE';

else

insert into log values(old.username,now(),'Success','delete','employee');

end if;

end\$

delimiter ;

#### Αποτελέσματα 1 Εκτέλεσης 3<sup>ου</sup> Trigger του πίνακα Employee

```
mysql> delete from employee where username='dalak';  
ERROR 1644 (45000): DELETION FROM EMPLOYEE failed due to EXISTING EVALUATION REQUESTS FOR THIS EMPLOYEE
```

### 2.4.7 Trigger 1 στον πίνακα Requestsevaluation

drop trigger if exists requestsevaluationrig1;

delimiter \$

create trigger requestsevaluationrig1 before insert on requestsevaluation

for each row

begin

DECLARE jeuname varchar(12);

SET jeuname = (SELECT requestsevaluation.empl\_username FROM requestsevaluation WHERE requestsevaluation.empl\_username=NEW.empl\_username and requestsevaluation.job\_id=new.job\_id);

IF jeuname IS NOT NULL THEN

insert into log values(NEW.empl\_username,now(),'Failure','insert','requestsevaluation');

SIGNAL SQLSTATE VALUE '45000' SET MESSAGE\_TEXT = 'INSERT on requestsevaluation failed due to duplicate EMPLOYEE USERNAME and JOB ID';

ELSE

insert into log values(NEW.empl\_username,now(),'failure','insert','requestsevaluation');

END IF;

end\$

delimiter ;

-- test

insert into requestsevaluation values('dimop',5);

#### Αποτελέσματα 1 Εκτέλεσης 1<sup>ου</sup> Trigger του πίνακα requestsevaluation

```
mysql> insert into requestsevaluation values('dimop',5);  
ERROR 1644 (45000): INSERT on requestsevaluation failed due to duplicate EMPLOYEE USERNAME and JOB ID
```

#### 2.4.8 Trigger 2 στον πίνακα Requestsevaluation

drop trigger if exists requestsevaluationrig2;

```
delimiter $

create trigger requestsevaluationrig2 before update on requestsevaluation

for each row

begin

    IF (old.empl_username = new.empl_username and old.job_id=new.job_id) THEN

        insert into log values(NEW.empl_username,now(),'Failure','Update','requestsevaluation');

        SIGNAL SQLSTATE VALUE '45000' SET MESSAGE_TEXT = 'UPDATE on requestsevaluation failed due to duplicate EMPLOYEE USERNAME and JOB ID';

    ELSE

        insert into log values(NEW.empl_username,now(),'failure','update','requestsevaluation');

    END IF;

end$

delimiter ;
```

#### Αποτελέσματα 1 Εκτέλεσης 2<sup>ου</sup> Trigger του πίνακα requestsevaluation

```
mysql> update requestsevaluation set empl_username='dalak',job_id=2 where empl_username='dalak' and job_id=2;
ERROR 1644 (45000): UPDATE on requestsevaluation failed due to duplicate EMPLOYEE USERNAME and JOB ID
```



### 2.4.9 Trigger 3 στον πίνακα Requestsevaluation

drop trigger if exists requestsevaluationrig3;

delimiter \$

create trigger requestsevaluationrig3 before delete on requestsevaluation

for each row

begin

IF (EXISTS(SELECT count(\*) FROM requestsevaluation inner join employee on username=empl\_username group by empl\_username)) THEN

insert into log values(OLD.empl\_username,now(),'Failure','delete','requestsevaluation');

SIGNAL SQLSTATE VALUE '45000' SET MESSAGE\_TEXT = 'DELETION FROM requestsevaluation failed due to EXISTING EMPLOYEE WHO REQUESTS FOR EVALUATION';

else

insert into log values(old.empl\_username,now(),'Success','delete','requestsevaluation');

end if;

end\$

delimiter ;

#### Αποτελέσματα 1 Εκτέλεσης 3<sup>ου</sup> Trigger του πίνακα requestsevaluation

```
mysql> DELETE FROM requestsevaluation WHERE empl_username='dimop';  
ERROR 1644 (45000): DELETION FROM requestsevaluation failed due to EXISTING EMPLOYEE WHO REQUESTS FOR EVALUATION
```

#### 2.4.10 Trigger στον πίνακα company

drop trigger if exists companytrig;

delimiter \$

create trigger companytrig before update on company

for each row

begin

IF (old.AFM <> new.AFM) THEN

SIGNAL SQLSTATE VALUE '45000' SET MESSAGE\_TEXT = 'UPDATE on Compnay failed due to Company AFM cannot be changed';

END IF;

IF (old.DOY <> new.DOY) THEN

SIGNAL SQLSTATE VALUE '45000' SET MESSAGE\_TEXT = 'UPDATE on Compnay failed due to Company DOY cannot be changed';

END IF;

IF (old.name <> new.name) THEN

SIGNAL SQLSTATE VALUE '45000' SET MESSAGE\_TEXT = 'UPDATE on Compnay failed due to Company NAME cannot be changed';

END IF;

end\$

delimiter ;

#### Αποτελέσματα 5 Εκτελέσεων Trigger του πίνακα company

```
mysql> update company set AFM='111111111' where AFM='123456123';
ERROR 1644 (45000): UPDATE on Compnay failed due to Company AFM cannot be changed
mysql> update company set DOY='C PATRAS' where AFM='123456123';
ERROR 1644 (45000): UPDATE on Compnay failed due to Company DOY cannot be changed
mysql> update company set name='Kataskeyastiki OE PATRAS' where AFM='123456123';
ERROR 1644 (45000): UPDATE on Compnay failed due to Company NAME cannot be changed
mysql> update company set phone='2610324567' where AFM='123456123';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> update company set street='Agias',num=100,city='Pirgos' where AFM='123456123';
Query OK, 1 row affected (0.00 sec)
```

#### 2.4.11 Trigger στον πίνακα user

drop trigger if exists useradmintrig;

delimiter \$

create trigger useradmintrig before update on user

for each row

begin

IF (old.username <> new.username and old.username<>'admin') THEN

SIGNAL SQLSTATE VALUE '45000' SET MESSAGE\_TEXT = 'UPDATE on User failed due to User Username cannot be changed';

END IF;

end\$

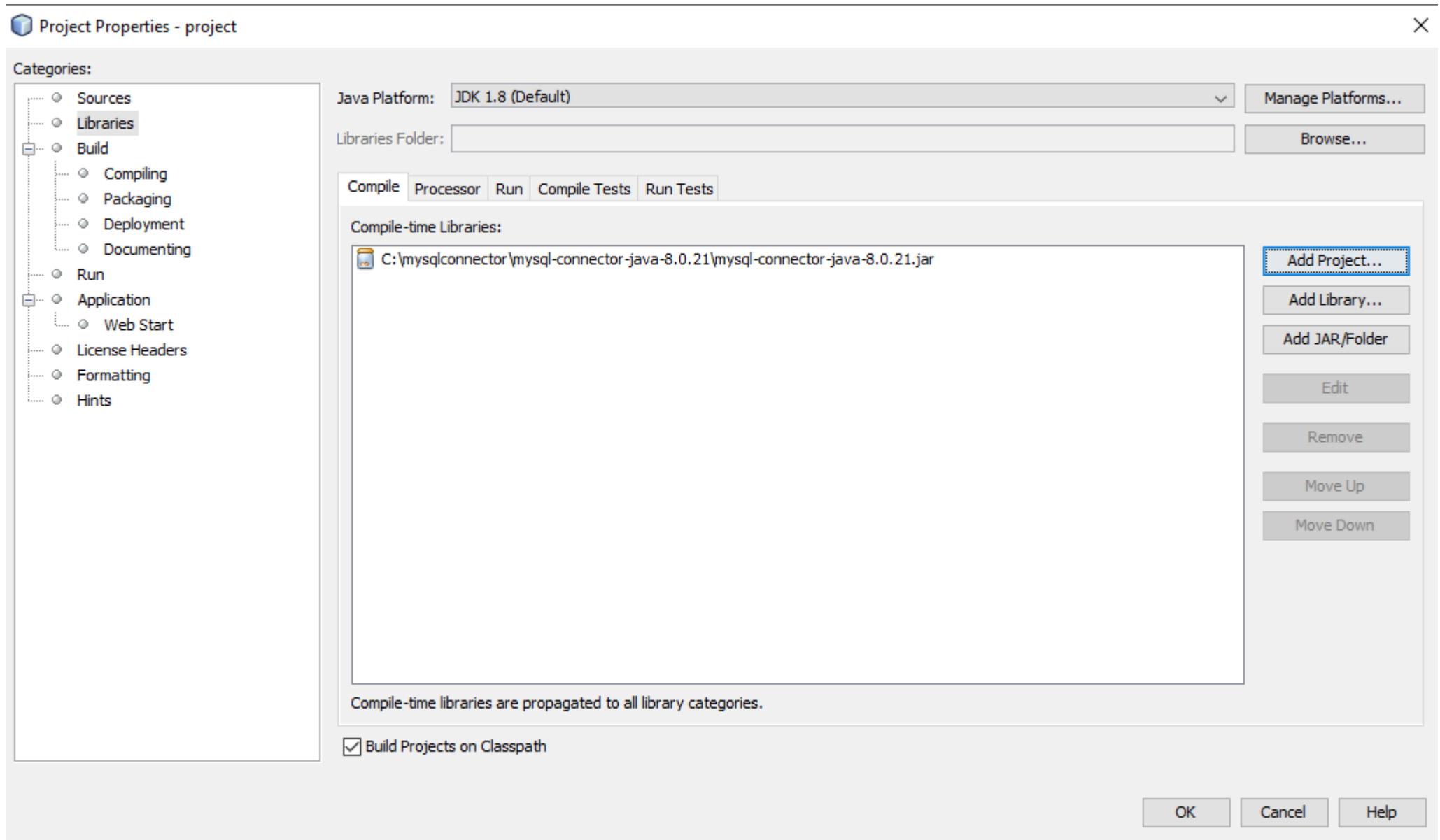
delimiter ;

#### Αποτελέσματα 2 Εκτελέσεων Trigger του πίνακα user









```
mysql> update user set username='maria' where username='dalak';  
Query OK, 1 row affected (0.00 sec)  
Rows matched: 1  Changed: 1  Warnings: 0  
  
mysql> update user set username='maria' where username='admin';  
ERROR 1062 (23000): Duplicate entry 'maria' for key 'user.PRIMARY'
```

## 3 Μέρος B: GUIs

### 3.1 Σύνδεση Java με Mysql μέσω του πακέτου NetBeans



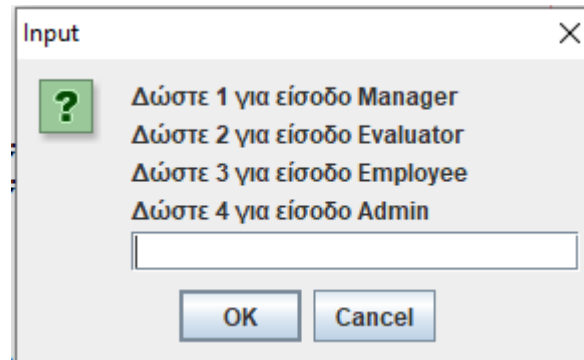
Το .jar βρίσκεται στον ακόλουθο φάκελο

 mysql-connector-java-8.0.21	16/6/2020 17:17	Φάκελος αρχείων	
 src	16/6/2020 17:17	Φάκελος αρχείων	
 build.xml	16/6/2020 17:17	XML Document	89 KB
 CHANGES	16/6/2020 17:17	Αρχείο	260 KB
 INFO_BIN	16/6/2020 17:17	Αρχείο	1 KB
 INFO_SRC	16/6/2020 17:17	Αρχείο	1 KB
 LICENSE	16/6/2020 17:17	Αρχείο	135 KB
 mysql-connector-java-8.0.21.jar	16/6/2020 17:17	Executable Jar File	2.342 KB
 README	16/6/2020 17:17	Αρχείο	2 KB

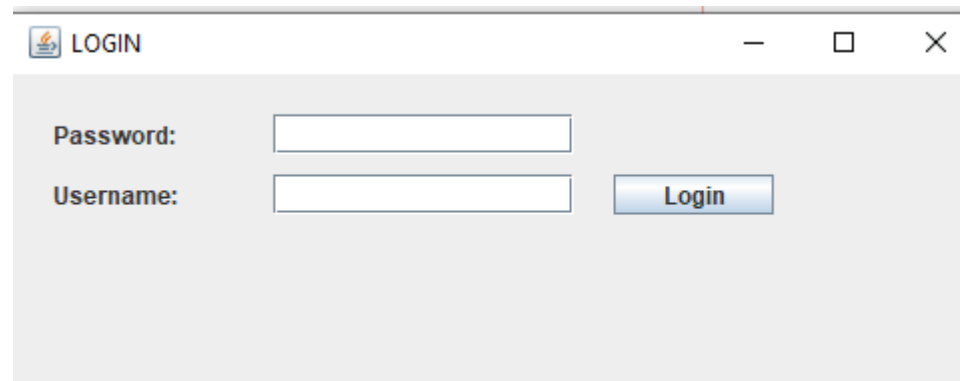
### 3.2 Λειτουργίες Διευθυντή (Manager)

Στα παραδείγματα που παραθέτουμε χρησιμοποιούμε ως manager το χρήστη με username papan ο οποίος ταυτόχρονα είναι και evaluator.

Αρχικά γίνεται είσοδος του Manager εκτελώντας το αρχείο login.java. Εμφανίζεται το ακόλουθο παράθυρο:



Ακολούθως εμφανίζεται το παράθυρο LOGIN για να εισάγει ο Manager τα στοιχεία του:

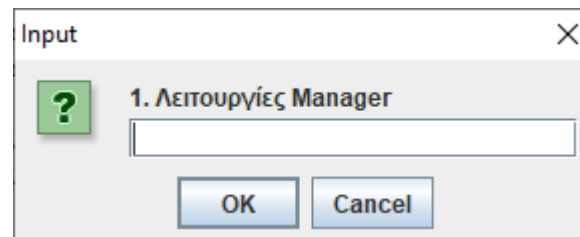


Συμπληρώνει τα στοιχεία του:



A Windows-style dialog box titled "LOGIN" with a small icon on the left and standard minimize, maximize, and close buttons on the right. The dialog has a light gray background. It contains two labels: "Password:" and "Username:". Next to "Password:" is a text input field containing the text "papan". Next to "Username:" is a text input field also containing the text "papan". To the right of the "Username:" input field is a blue button with the text "Login".

Εμφανίζεται το επόμενο παράθυρο στο οποίο εισάγει το 1:



A small Windows-style dialog box titled "Input" with a close button on the right. It has a light gray background. On the left side, there is a green square icon containing a white question mark. To the right of the icon is the text "1. Λειτουργίες Manager". Below this text is a text input field. At the bottom of the dialog are two buttons: "OK" and "Cancel".

Μετά εμφανίζεται το μενού με τις λειτουργίες του:

### Λειτουργίες Manager

1. Αλλαγή Στοιχείων Εταιρείας Manager

2. Αλλαγή Manager Password και/ή Email

3. Τροποποίηση Μισθού Θέσης Προαγωγής

4. Αποτελέσματα για θέσεις με Οριστικοποιημένη Αξιολόγηση

5. Μέσος Όρος Αξιολόγησης για κάθε αξιολογητή της εταιρείας του

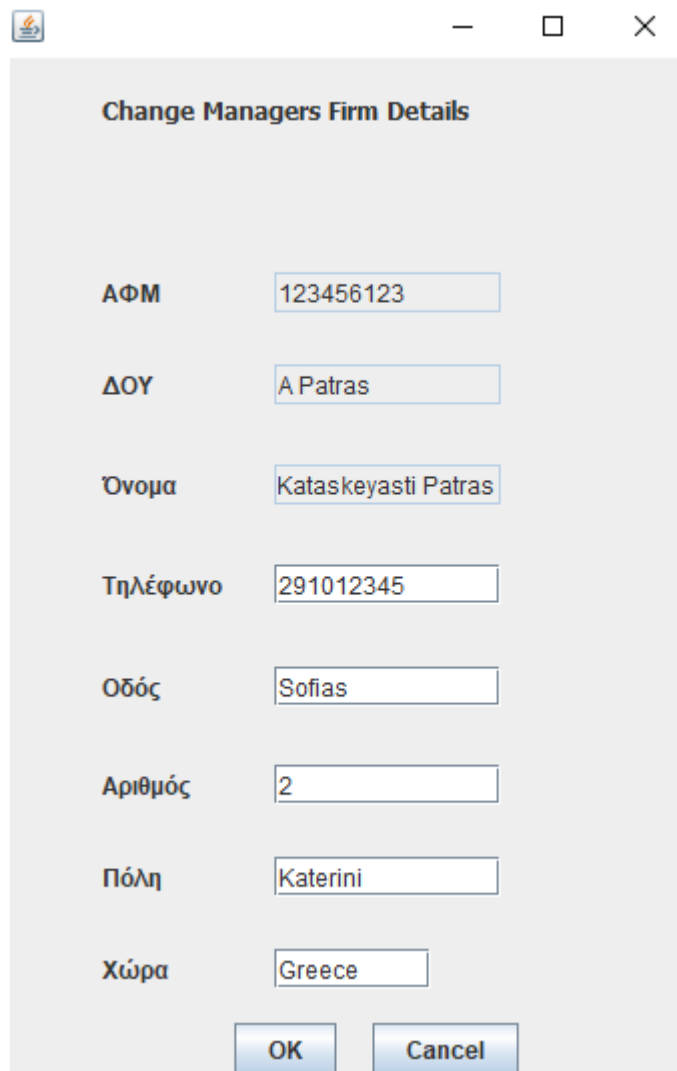
6. Εμφάνιση/Ενημέρωση Φακέλου Εργαζόμενου

7. Απτήσεις Εργαζόμενου/Οκοκληρωμένες Αξιολογήσεις/Αξιολογητής

Exit



### 3.2.1 Λειτουργία 1 - Αλλαγή στοιχείων εταιρείας εκτός από το ΑΦΜ, τη ΔΟΥ και την επωνυμία (name)



**Change Managers Firm Details**

ΑΦΜ: 123456123

ΔΟΥ: A Patras

Όνομα: Kataskeyasti Patras

Τηλέφωνο: 291012345

Οδός: Sofias

Αριθμός: 2

Πόλη: Katerini

Χώρα: Greece

OK Cancel

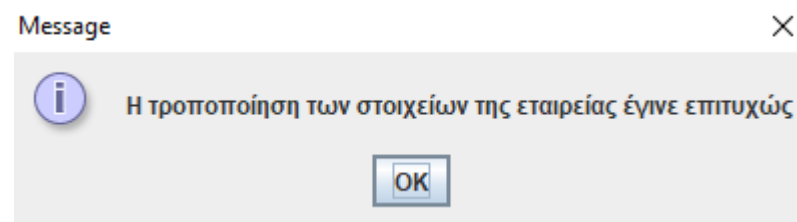
Παρατηρούμε ότι τα πεδία ΑΦΜ, ΔΟΥ και η επωνυμία της εταιρείας του είναι κλειδωμένα ώστε να μην μπορούν να τροποποιηθούν. Μπορεί να αλλάξει τα υπόλοιπα στοιχεία και πατώντας OK αυτά καταχωρούνται στη βάση δεδομένων staff evaluation και ενημερώνουν τον πίνακα company. Στην επόμενη εικόνα παραθέτουμε κάποιες ενδεικτικές αλλαγές:

Change Managers Firm Details

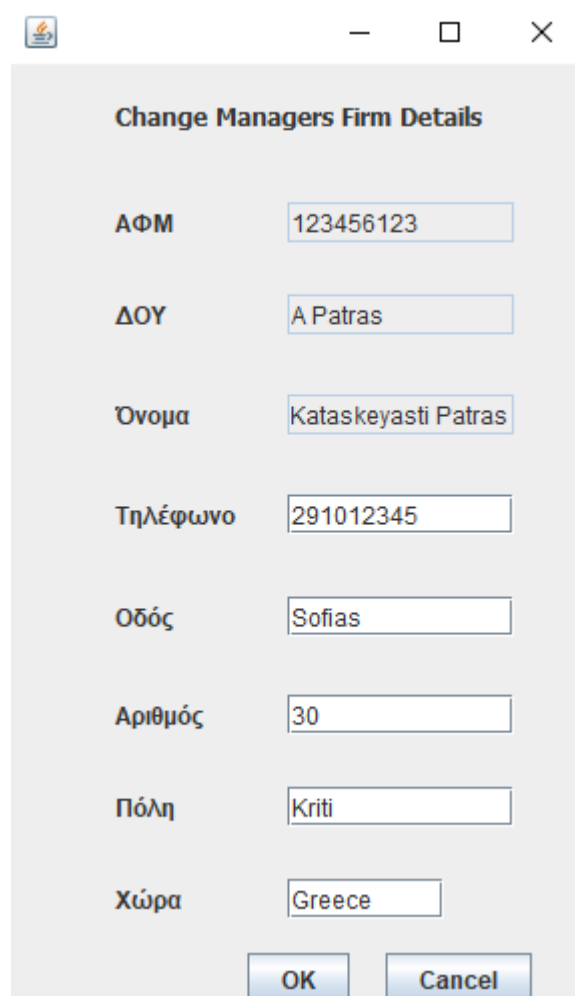
ΑΦΜ	123456123
ΔΟΥ	A Patras
Όνομα	Kataskeyasti Patras
Τηλέφωνο	291012345
Οδός	Sofias
Αριθμός	30
Πόλη	Kriti
Χώρα	Greece

OK Cancel

Πατώντας OK και μετά επιλέγοντας πάλι την ίδια λειτουργία εμφανίζεται αρχικά η εικόνα:



και μετά η εικόνα:



**Change Managers Firm Details**

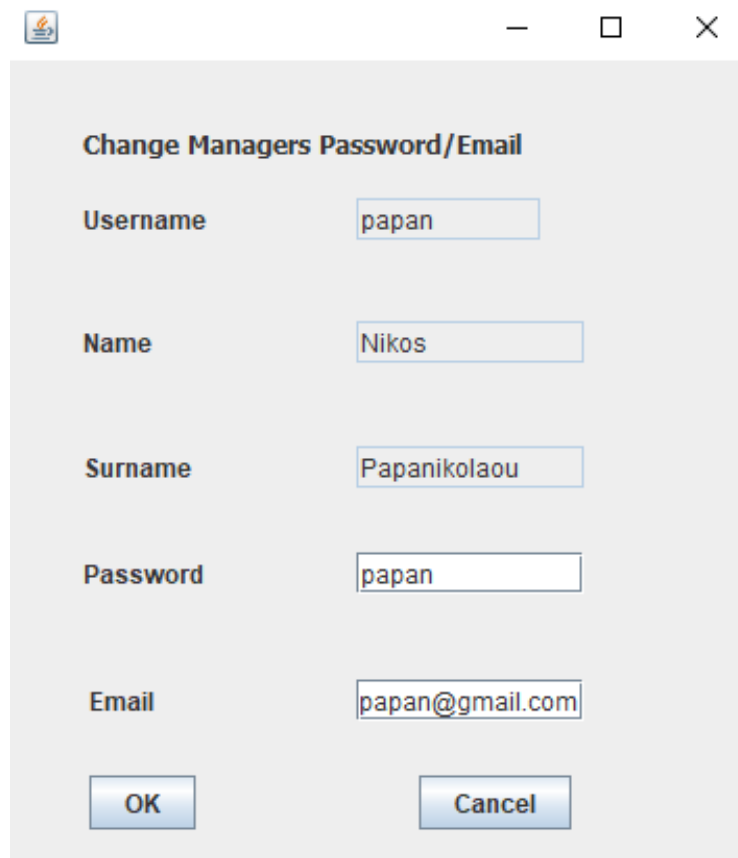
ΑΦΜ	123456123
ΔΟΥ	A Patras
Όνομα	Kataskeyasti Patras
Τηλέφωνο	291012345
Οδός	Sofias
Αριθμός	30
Πόλη	Kriti
Χώρα	Greece

OK Cancel

που δείχνει επιτυχή τροποποίηση

Ο κώδικας αυτής της λειτουργίας υλοποιείται στο αρχείο:

### 3.2.2 Λειτουργία 2 - Αλλαγή στοιχείων εταιρείας εκτός από το ΑΦΜ, τη ΔΟΥ και την επωνυμία (name)



**Change Managers Password/Email**

Username

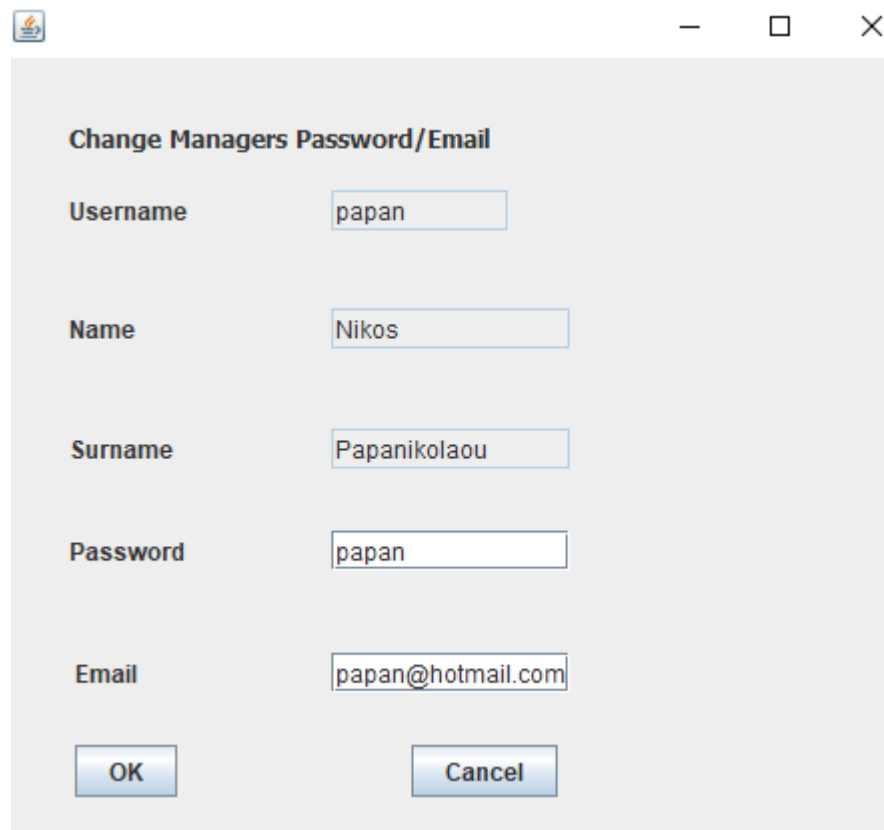
Name

Surname

Password

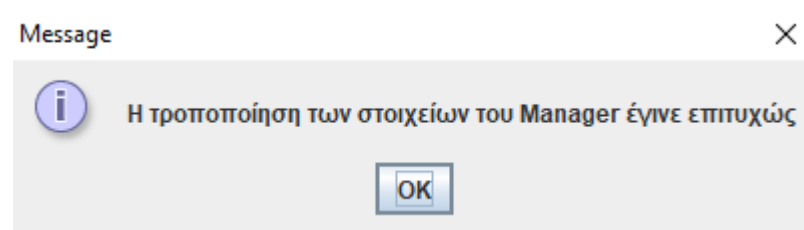
Email

Παρατηρούμε ότι τα πεδία Username, Name, Surname και Password είναι κλειδωμένα ώστε να μην μπορούν να τροποποιηθούν. Μπορεί να αλλάξει τα υπόλοιπα στοιχεία και πατώντας OK αυτά καταχωρούνται στη βάση δεδομένων staff evaluation και ενημερώνουν τον πίνακα user. Στην επόμενη εικόνα παραθέτουμε κάποιες ενδεικτικές αλλαγές:

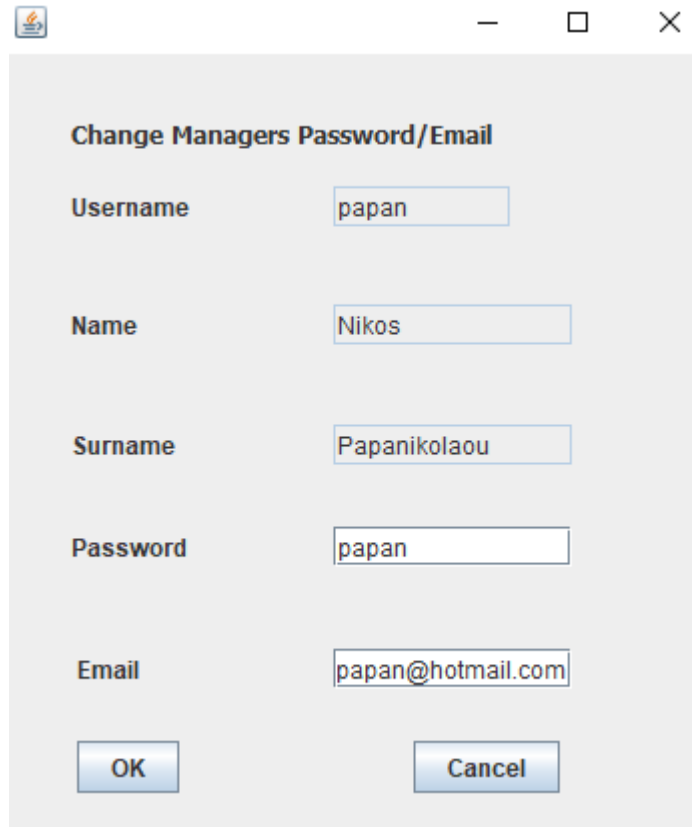


A screenshot of a Windows-style dialog box titled "Change Managers Password/Email". The dialog box has a standard Windows window header with a small icon on the left and minimize, maximize, and close buttons on the right. The main area contains five labeled text input fields: "Username" with the value "papan", "Name" with "Nikos", "Surname" with "Papanikolaou", "Password" with "papan", and "Email" with "papan@hotmail.com". At the bottom of the dialog are two buttons: "OK" and "Cancel".

Πατώντας OK εμφανίζεται το παράθυρο:



Επιλέγοντας πάλι την ίδια λειτουργία παρατηρούμε ότι οι αλλαγές έχουν γίνει:

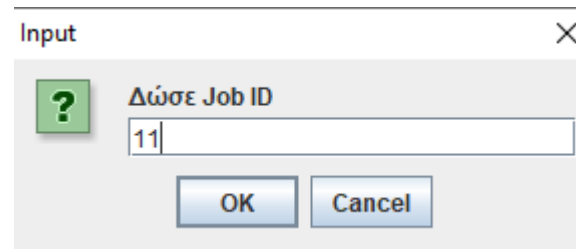


A screenshot of a Windows-style dialog box titled "Change Managers Password/Email". The dialog box has a standard title bar with a minimize button, a maximize button, and a close button. Inside the dialog, there are five text input fields, each preceded by a label: "Username" with the value "papan", "Name" with the value "Nikos", "Surname" with the value "Papanikolaou", "Password" with the value "papan", and "Email" with the value "papan@hotmail.com". At the bottom of the dialog, there are two buttons: "OK" and "Cancel".

Field	Value
Username	papan
Name	Nikos
Surname	Papanikolaou
Password	papan
Email	papan@hotmail.com

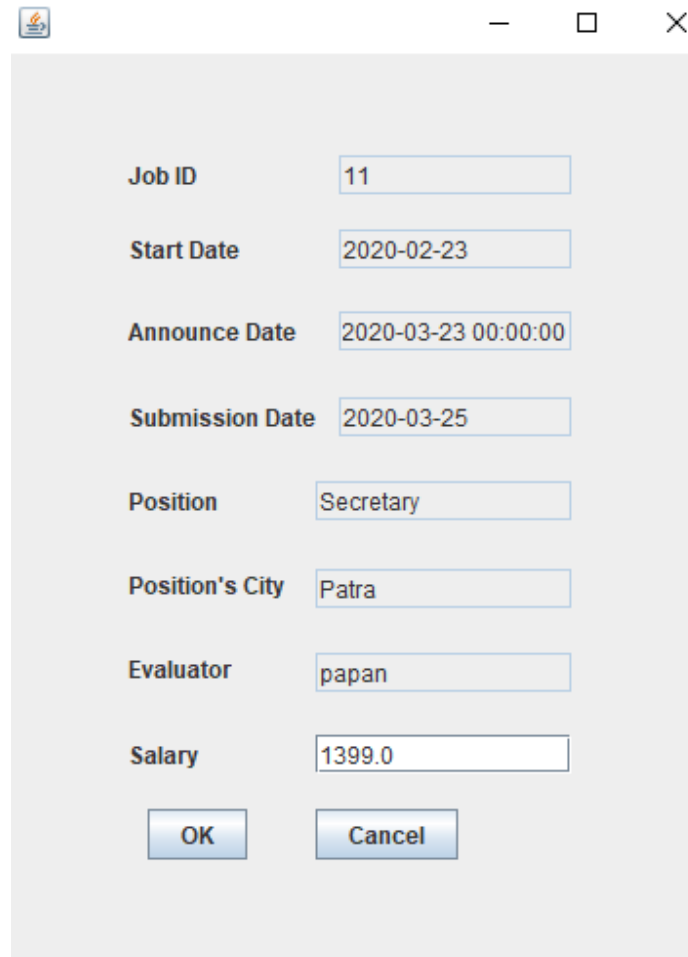
### 3.2.3 Λειτουργία 3 - Αλλαγή Μισθού Θέσης Προαγωγής

Δίνουμε αρχικά ένα JOB ID όπως στην επόμενη εικόνα:



A small dialog box titled "Input" with a close button (X) in the top right corner. On the left is a green square icon with a white question mark. To its right is the text "Δώσε Job ID". Below this text is a text input field containing the number "11". At the bottom are two buttons: "OK" and "Cancel".

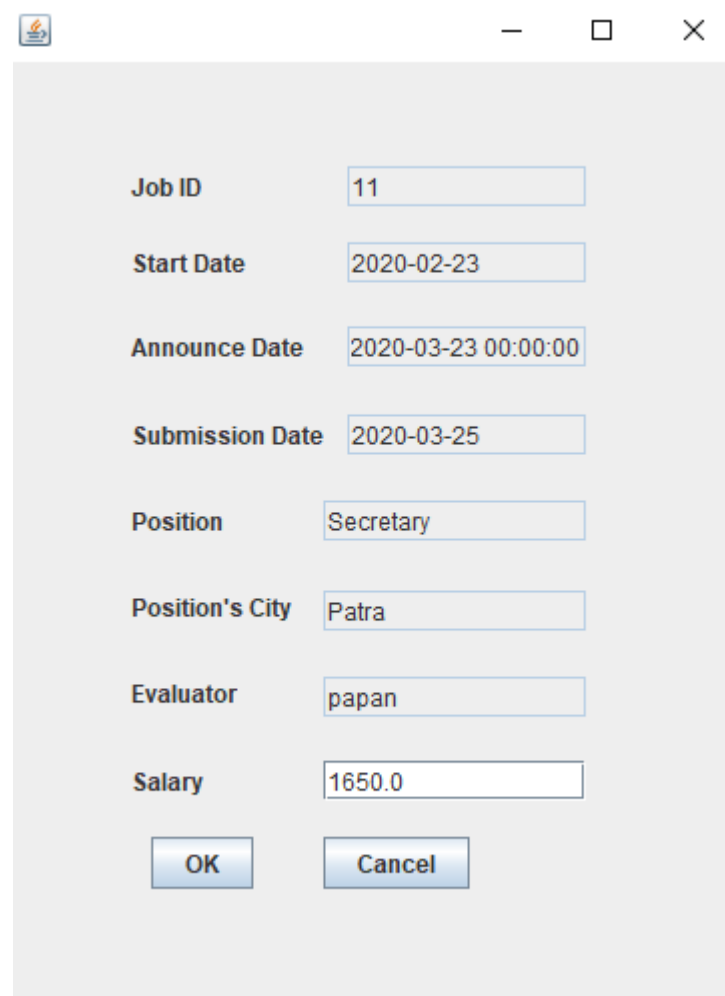
και εμφανίζονται τα στοιχεία της Job όπως στην επόμενη εικόνα:



A larger dialog box with a standard Windows title bar (minimize, maximize, close buttons). It contains a list of job details, each with a label and a text input field. At the bottom are "OK" and "Cancel" buttons.

Field	Value
Job ID	11
Start Date	2020-02-23
Announce Date	2020-03-23 00:00:00
Submission Date	2020-03-25
Position	Secretary
Position's City	Patra
Evaluator	papan
Salary	1399.0

Παρατηρούμε ότι όλα τα πεδία είναι κλειδωμένα εκτός από το salary. Τροποποιούμε το salary όπως στην επόμενη εικόνα και πατώντας OK αυτά καταχωρούνται στη βάση δεδομένων staff evaluation και ενημερώνουν τον πίνακα job. Στην επόμενη εικόνα παραθέτουμε κάποιες ενδεικτικές αλλαγές:



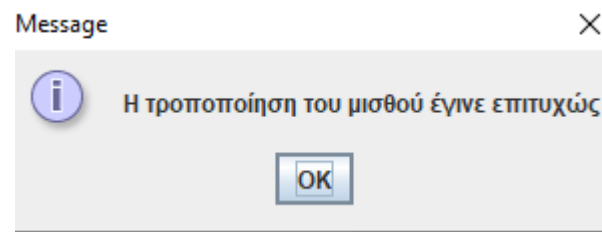
A screenshot of a software window titled with a small icon and standard window controls (minimize, maximize, close). The window contains a form with the following fields and values:

Field	Value
Job ID	11
Start Date	2020-02-23
Announce Date	2020-03-23 00:00:00
Submission Date	2020-03-25
Position	Secretary
Position's City	Patra
Evaluator	papan
Salary	1650.0

At the bottom of the form are two buttons: "OK" and "Cancel".

Πατώντας OK εμφανίζεται η εικόνα:






και μετά η εικόνα:

A Windows-style application window with a toolbar at the top containing a file icon, a minus sign, a maximize button, and a close button (X). The main area contains a form with the following fields:

Job ID	11
Start Date	2020-02-23
Announce Date	2020-03-23 00:00:00
Submission Date	2020-03-25
Position	Secretary
Position's City	Patra
Evaluator	papan
Salary	1650.0

At the bottom of the form are two buttons: "OK" and "Cancel".

3.2.4 Λειτουργία 4 – Εμφάνιση Αποτελεσμάτων Αξιολόγησης για θέσεις της εταιρείας του που έχουν οριστικοποιηθεί οι αξιολογήσεις



—

□

×

JID

11

Evaluator

papan

Employee

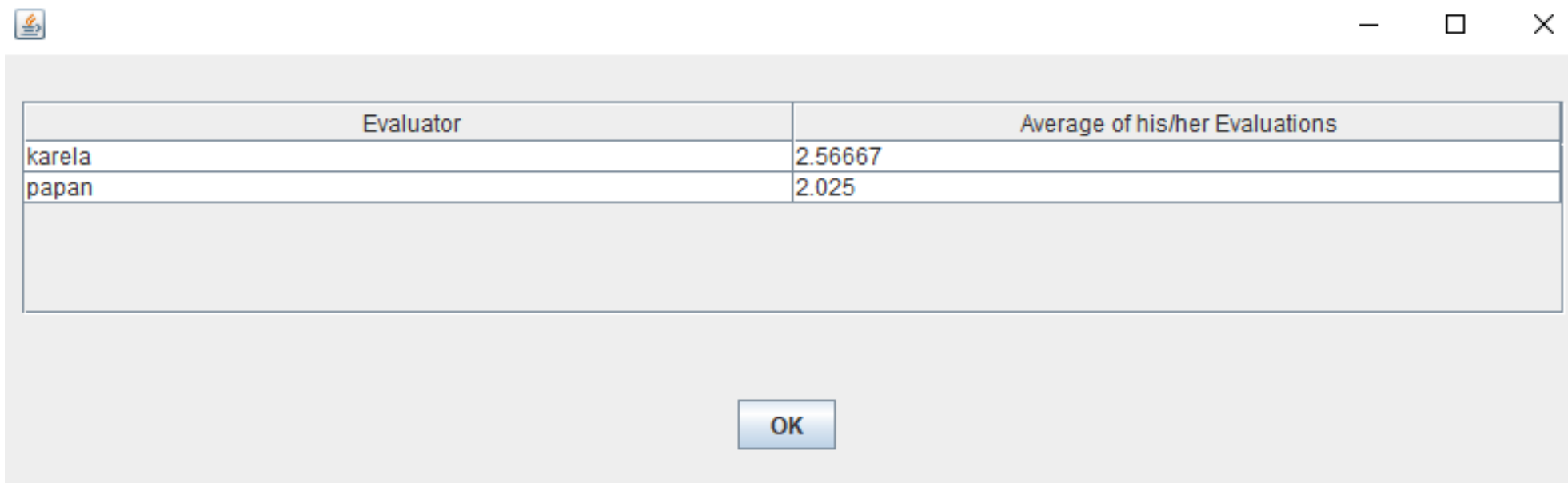
arg

id	bathmos_synenteyxis	bathmos_report	bathmos_loipon	username_eval	username_emp	teliko_apotelesma
1	0	1	1	papan	manolop	1.7
1	0	1	1	papan	giannakoy	1.7
2	1	1	1	papan	giannakoy	2.0
3	1	2	2	papan	arg	2.7

OK

Παρατηρούμε ότι απλά παρατίθενται όλα τα αποτελέσματα Αξιολόγησης για θέσεις με οριστικοποιημένο βαθμό δηλ. με περιεχόμενο στο πεδίο Teliko\_apotelesma για την εταιρεία που είναι manager ο manager papan.

### 3.2.5 Λειτουργία 5 – Εμφάνιση Μέσου Όρου Βαθμού Αξιολόγησης για όλους τους Αξιολογητές της εταιρείας του



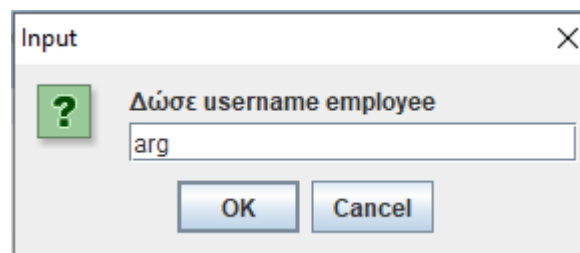
Evaluator	Average of his/her Evaluations
karela	2.56667
papan	2.025

OK

Παρατηρούμε ότι για όλους τους evaluators της εταιρείας του manager papan (ο οποίος είναι ταυτόχρονα και evaluator) εμφανίζονται οι μέσοι όροι των αξιολογήσεων του καθενός

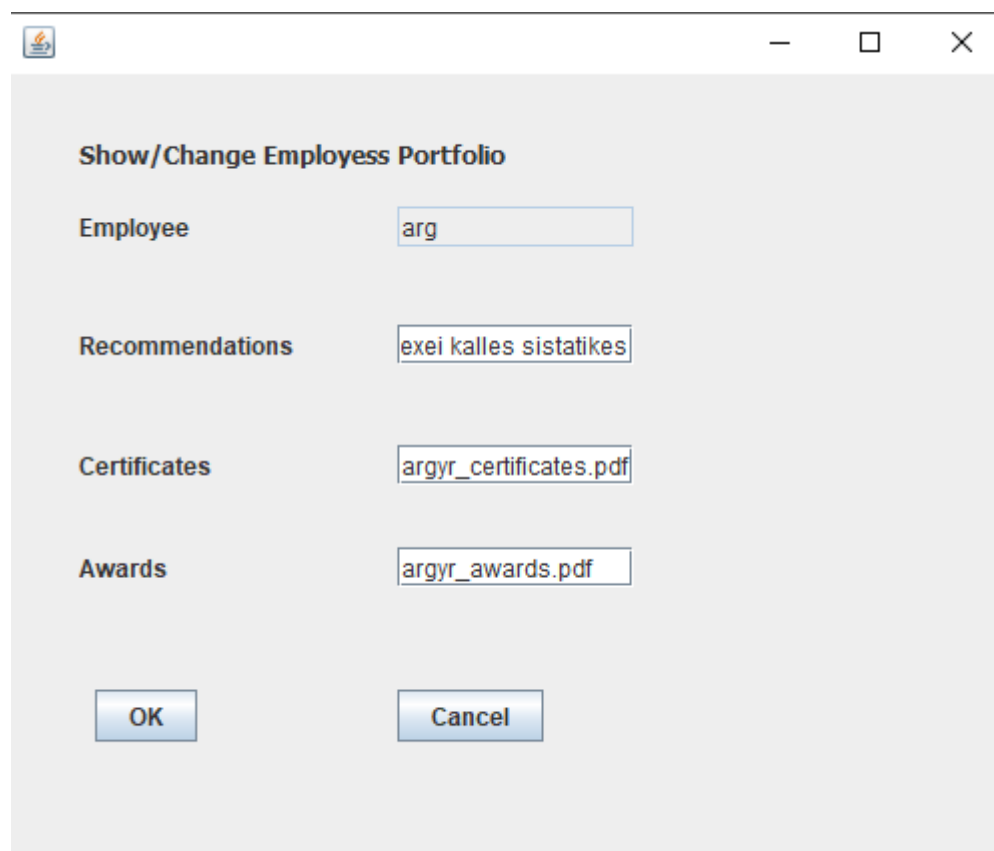
### 3.2.6 Λειτουργία 6 – Εμφάνιση και Ενημέρωση Φακέλου Εργαζόμενου

Πατώντας το πλήκτρο αυτής της λειτουργίας ανοίγει το επόμενο παράθυρο όπου συμπληρώνουμε το username ενός employee



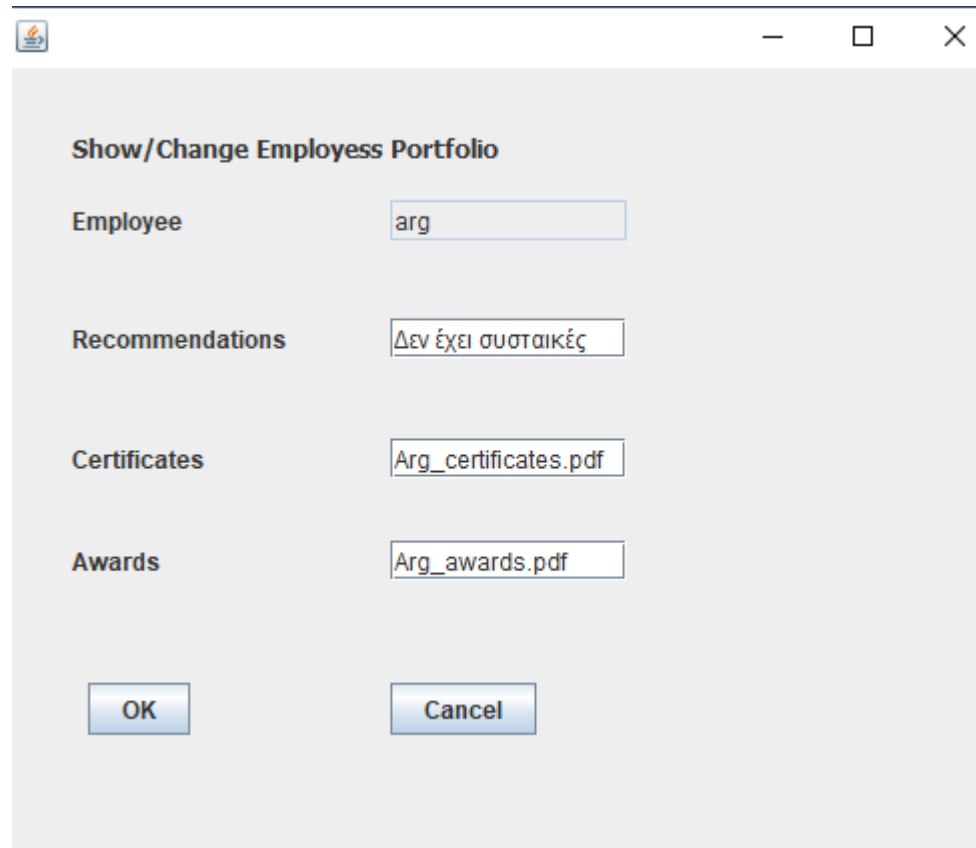
A small dialog box titled "Input" with a close button (X) in the top right corner. It contains a green square icon with a white question mark on the left. To the right of the icon is the text "Δώσε username employee". Below this text is a text input field containing the text "arg". At the bottom of the dialog are two buttons: "OK" and "Cancel".

και εμφανίζεται το επόμενο παράθυρο:



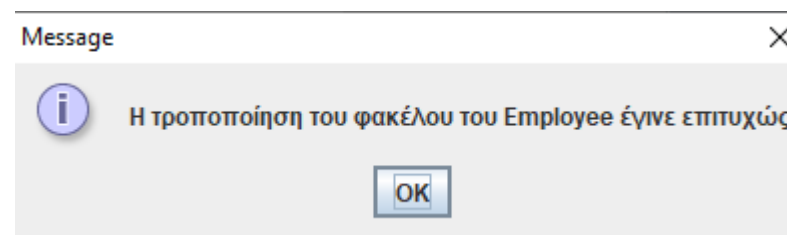
A larger dialog box titled "Show/Change Employess Portfolio" with standard window controls (minimize, maximize, close) in the top right corner. It contains four rows of labels and text input fields. The first row is "Employee" with the input "arg". The second row is "Recommendations" with the input "exei kalles sistatikes". The third row is "Certificates" with the input "argyr\_certificates.pdf". The fourth row is "Awards" with the input "argyr\_awards.pdf". At the bottom of the dialog are two buttons: "OK" and "Cancel".

Τροποποιούμε κάποια στοιχεία του φακέλου του συγκεκριμένου employee όπως στην επόμενη εικόνα:

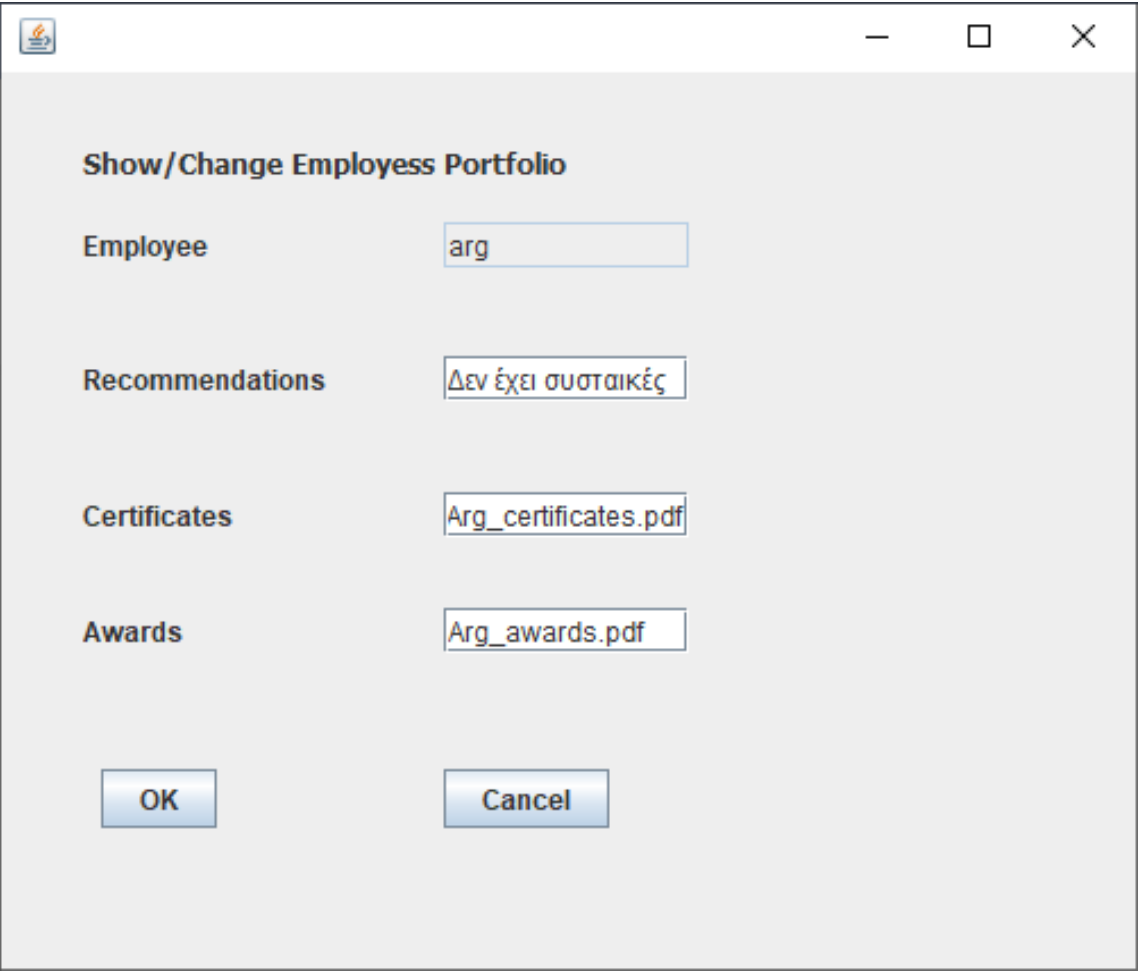


The image shows a Windows-style dialog box titled "Show/Change Employess Portfolio". It contains four labeled text input fields: "Employee" with the value "arg", "Recommendations" with the value "Δεν έχει συστατικές", "Certificates" with the value "Arg\_certificates.pdf", and "Awards" with the value "Arg\_awards.pdf". At the bottom, there are two buttons: "OK" and "Cancel".

και προκύπτει ότι



και εμφανίζοντας πάλι τα στοιχεία του employee προκύπτει ότι οι αλλαγές καταχωρήθηκαν:



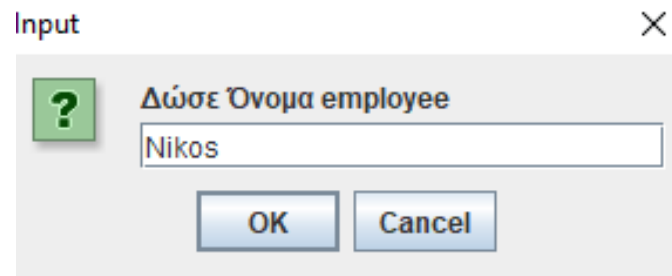
The screenshot shows a window titled "Show/Change Employess Portfolio" with a standard Windows-style title bar (minimize, maximize, close buttons). The window contains a form with the following fields:

Field Label	Value
Employee	arg
Recommendations	Δεν έχει συσταικές
Certificates	Arg_certificates.pdf
Awards	Arg_awards.pdf

At the bottom of the window, there are two buttons: "OK" and "Cancel".

### 3.2.7 Λειτουργία 7– Εμφάνιση (α) όλων των αιτήσεων συγκεκριμένου υπαλλήλου (β) οι τελικές ολοκληρωμένες αξιολογήσεις του και (γ) το όνομα και επώνυμο του αντίστοιχου αξιολογητή

Πατώντας το πλήκτρο αυτής της λειτουργίας ανοίγει το επόμενο παράθυρο όπου συμπληρώνουμε το ονοματεπώνυμο ενός employee



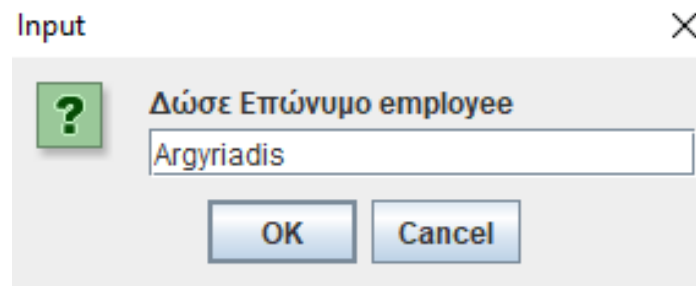
Input

Δώσε Όνομα employee

Nikos

OK Cancel

This is a standard Windows-style input dialog box. It has a title bar with the word 'Input' and a close button (X). The main area contains a green square icon with a white question mark, followed by the text 'Δώσε Όνομα employee'. Below this is a text input field containing the name 'Nikos'. At the bottom are two buttons: 'OK' and 'Cancel'.



Input

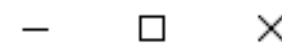
Δώσε Επώνυμο employee

Argyriadis

OK Cancel

This is a standard Windows-style input dialog box. It has a title bar with the word 'Input' and a close button (X). The main area contains a green square icon with a white question mark, followed by the text 'Δώσε Επώνυμο employee'. Below this is a text input field containing the surname 'Argyriadis'. At the bottom are two buttons: 'OK' and 'Cancel'.

και μετά εμφανίζονται όλες οι αιτήσεις του, οι ολοκληρωμένες αξιολογήσεις του και το username του αντίστοιχου αξιολογητή (evaluator)



### Show/Change Employee Portfolio

Όνομα	Επώνυμο	A/A Αίτησης
Nikos	Argyriadis	1
Nikos	Argyriadis	3

Όνομα	Επώνυμο	A/A	JOB ID	Evaluator	Υπάλληλος	Τελικό Αποτέλεσμα
Nikos	Argyriadis	6	1	papan	manolop	1.7
Nikos	Argyriadis	7	1	papan	giannakoy	1.7
Nikos	Argyriadis	8	2	papan	giannakoy	2.0
Nikos	Argyriadis	9	3	papan	arg	2.7

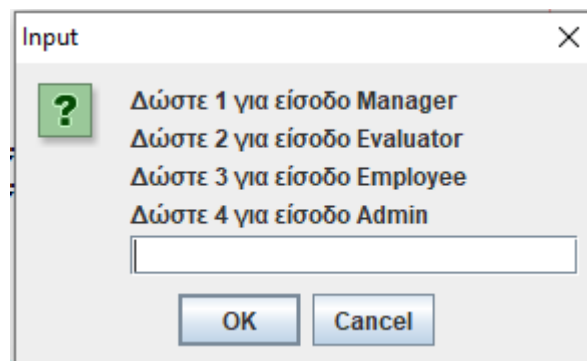
OK



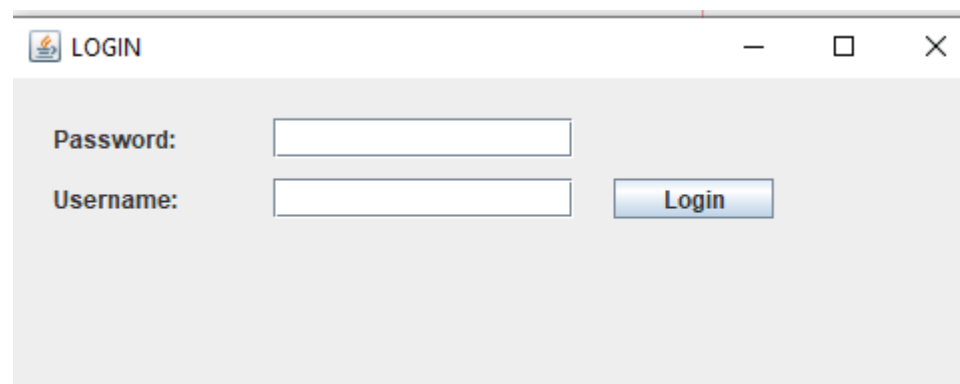
### 3.3 Λειτουργίες Αξιολογητή (Evaluator)

Στα παραδείγματα που παραθέτουμε χρησιμοποιούμε ως Evaluator το χρήστη με username papan ο οποίος ταυτόχρονα είναι και evaluator.

Αρχικά γίνεται είσοδος του Evaluator εκτελώντας το αρχείο login.java. Εμφανίζεται το ακόλουθο παράθυρο:



Ακολούθως εμφανίζεται το παράθυρο LOGIN για να εισάγει ο Evaluator τα στοιχεία του:

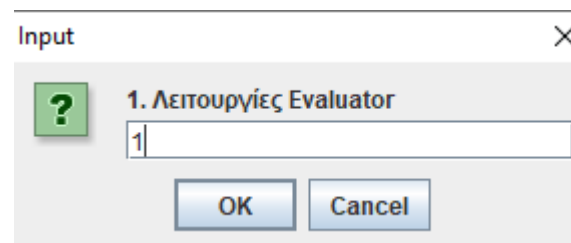


Συμπληρώνει τα στοιχεία του:



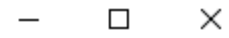
A Windows-style dialog box titled "LOGIN" with a small icon on the left and standard minimize, maximize, and close buttons on the right. The dialog has a light gray background. It contains two text input fields: "Password:" and "Username:". Both fields contain the text "papan". To the right of the "Username:" field is a blue "Login" button.

Εμφανίζεται το επόμενο παράθυρο στο οποίο εισάγει το 1:



A small Windows-style dialog box titled "Input" with a close button (X) in the top right corner. The dialog has a light gray background. On the left side, there is a green square icon with a white question mark. To the right of the icon, the text "1. Λειτουργίες Evaluator" is displayed. Below this text is a text input field containing the number "1". At the bottom of the dialog, there are two buttons: "OK" and "Cancel".

Μετά εμφανίζεται το μενού με τις λειτουργίες του:



### Λειτουργίες Evaluator

1. Αλλαγή Στοιχείων Λογαριασμού Evaluator

2. Εμφάνιση/Τροποποίηση Θέσεων που έχει ανακοινώσει

3. Εισαγωγή Θέσης Προαγωγής

4. Εμφάνιση/Τροποποίηση Θέσεων Εργασίας Evaluator

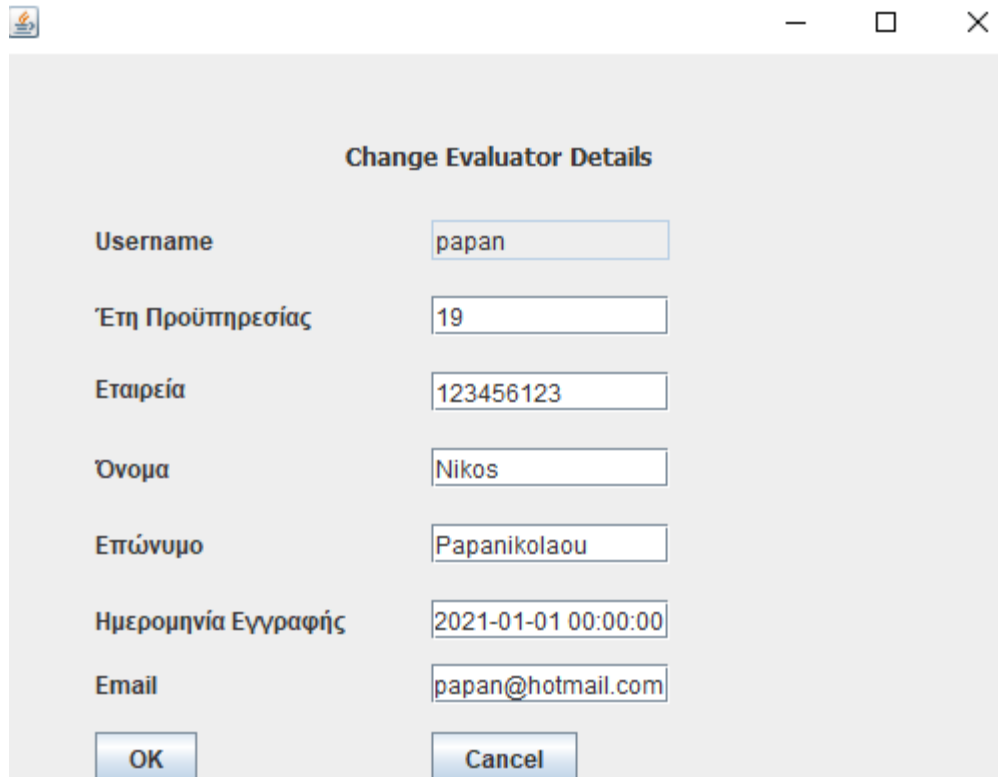
6. Call SP 3.3

7. Εμφάνιση Jobs Εταιρείας Evaluator

Exit

### 3.3.1 Λειτουργία 1 – Εμφάνιση και Επεξεργασία των Στοιχείων του Λογαριασμού του

Πατώντας το πλήκτρο Αλλαγή Στοιχείων Λογαριασμού Evaluator εμφανίζεται το ακόλουθο παράθυρο:




**Change Evaluator Details**

Username	papan
Έτη Προϋπηρεσίας	19
Εταιρεία	123456123
Όνομα	Nikos
Επώνυμο	Papanikolaou
Ημερομηνία Εγγραφής	2021-01-01 00:00:00
Email	papan@hotmail.com

OK Cancel

Αλλάζουμε την ηλικία από 19 σε 21 και πατάμε OK


Η επόμενη εικόνα δείχνει ότι η αλλαγή αυτή καταχωρήθηκε επιτυχώς.

 — □

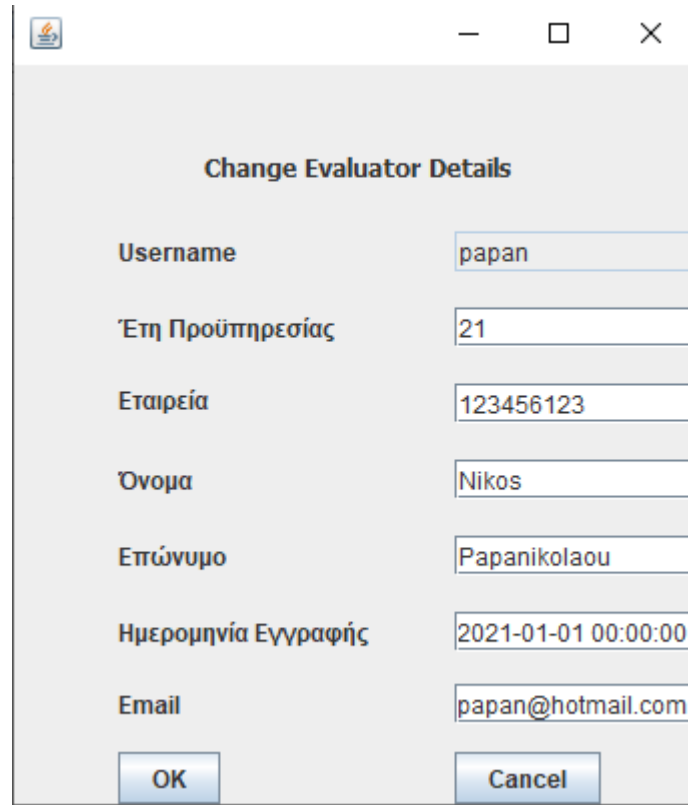
### Change Evaluator Details

Username	<input type="text" value="papan"/>
Έτη Προϋπηρεσίας	<input type="text" value="21"/>
Εταιρεία	<input type="text" value="123456123"/>
Όνομα	<input type="text" value="Nikos"/>
Επώνυμο	<input type="text" value="Papanikolaou"/>
Ημερομηνία Εγγραφής	<input type="text" value="2021-01-01 00:00:00"/>
Email	<input type="text" value="papan@hotmail.com"/>

Message ×

 Η τροποποίηση των στοιχείων του Evaluator έγινε επιτυχώς

Όταν μετά ο evaluator επιλέξει πάλι την ίδια λειτουργία φαίνεται ότι η τροποποίηση έχει γίνει επιτυχώς από την επόμενη εικόνα

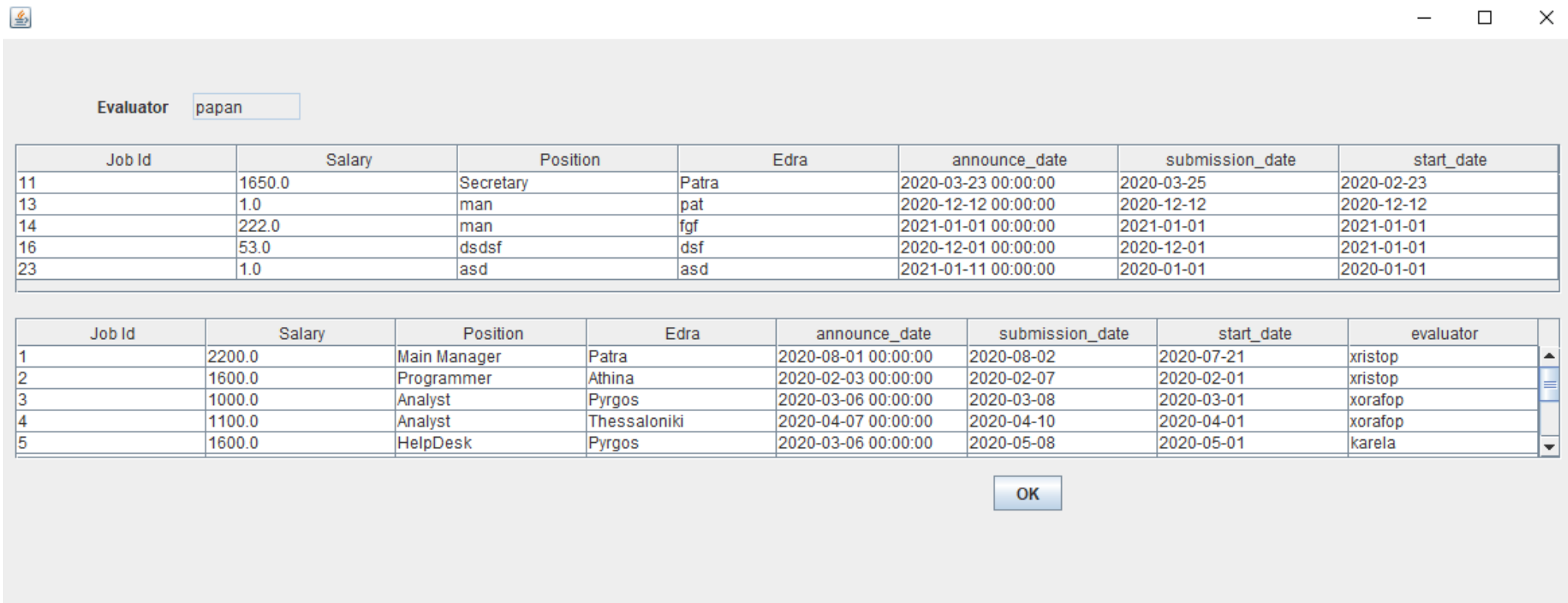


A screenshot of a Windows-style dialog box titled "Change Evaluator Details". The dialog box has a standard title bar with a minimize button, a maximize button (disabled), and a close button. The main area contains several text input fields, each preceded by a label. The fields are filled with the following data: Username: papan, Έτη Προϋπηρεσίας: 21, Εταιρεία: 123456123, Όνομα: Nikos, Επώνυμο: Papanikolaou, Ημερομηνία Εγγραφής: 2021-01-01 00:00:00, and Email: papan@hotmail.com. At the bottom of the dialog, there are two buttons: "OK" and "Cancel".

Field	Value
Username	papan
Έτη Προϋπηρεσίας	21
Εταιρεία	123456123
Όνομα	Nikos
Επώνυμο	Papanikolaou
Ημερομηνία Εγγραφής	2021-01-01 00:00:00
Email	papan@hotmail.com

### 3.3.2 Λειτουργία 2 – Εμφάνιση Θέσεων Προαγωγής Εταιρείας/Επεξεργασία των Δικών του

Αν στο βασικό μενού με τις Λειτουργίες του Evaluator επιλέξουμε τη 2<sup>η</sup> λειτουργία με τίτλο 'Εμφάνιση/Τροποποίηση Θέσεων που έχει ανακοινώσει τότε εμφανίζεται η ακόλουθη εικόνα για τον evaluator που έχει κάνει login



Evaluator

Job Id	Salary	Position	Edra	announce_date	submission_date	start_date
11	1650.0	Secretary	Patra	2020-03-23 00:00:00	2020-03-25	2020-02-23
13	1.0	man	pat	2020-12-12 00:00:00	2020-12-12	2020-12-12
14	222.0	man	fgf	2021-01-01 00:00:00	2021-01-01	2021-01-01
16	53.0	dsdsf	dsf	2020-12-01 00:00:00	2020-12-01	2021-01-01
23	1.0	asd	asd	2021-01-11 00:00:00	2020-01-01	2020-01-01

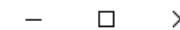
Job Id	Salary	Position	Edra	announce_date	submission_date	start_date	evaluator
1	2200.0	Main Manager	Patra	2020-08-01 00:00:00	2020-08-02	2020-07-21	xristop
2	1600.0	Programmer	Athina	2020-02-03 00:00:00	2020-02-07	2020-02-01	xristop
3	1000.0	Analyst	Pyrgos	2020-03-06 00:00:00	2020-03-08	2020-03-01	xorafop
4	1100.0	Analyst	Thessaloniki	2020-04-07 00:00:00	2020-04-10	2020-04-01	xorafop
5	1600.0	HelpDesk	Pyrgos	2020-03-06 00:00:00	2020-05-08	2020-05-01	karela

OK

Στην 1<sup>η</sup> λίστα εμφανίζεται η λίστα των θέσεων που έχει ανακοινώσει ο ίδιος και οι οποίες είναι επεξεργάσιμες/τροποποιήσιμες από τον evaluator papan που έχει κάνει login.

Στην 2<sup>η</sup> λίστα εμφανίζεται η λίστα των θέσεων που έχουν ανακοινώσει άλλοι evaluator της εταιρείας του και οι οποίες δεν είναι επεξεργάσιμες/τροποποιήσιμες από τον evaluator papan που έχει κάνει login παρά μόνο ορατές σε μια λίστα.

Στην επόμενη εικόνα φαίνονται μερικές αλλαγές που κάνει ο evaluator στις δικές του θέσεις προαγωγής



Evaluator

papan

Job Id	Salary	Position	Edra	announce_date	submission_date	start_date
11	1650.0	Secretary	Patra	2020-03-23 00:00:00	2020-03-25	2020-02-23
13	1.0	man	pat	2020-12-12 00:00:00	2020-12-12	2020-12-12
14	222.0	man	fgf	2021-01-01 00:00:00	2021-01-01	2021-01-01
16	53.0	Βοηθός Γραμματείας	dsf	2020-12-01 00:00:00	2020-12-01	2021-01-01
23	1.0	Προγραμμαστής	asd	2021-01-11 00:00:00	2020-01-01	2020-01-01

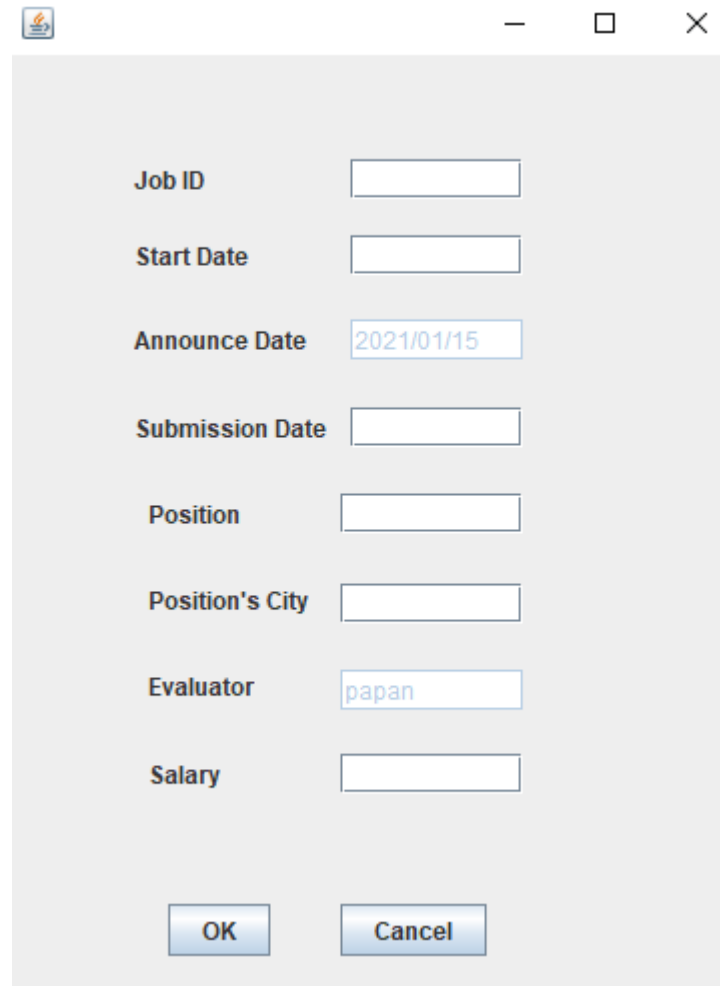
Job Id	Salary	Position	Edra	announce_date	submission_date	start_date	evaluator
1	2200.0	Main Manager	Patra	2020-08-01 00:00:00	2020-08-02	2020-07-21	xristop
2	1600.0	Programmer	Athina	2020-02-03 00:00:00	2020-02-07	2020-02-01	xristop
3	1000.0	Analyst	Pyrgos	2020-03-06 00:00:00	2020-03-08	2020-03-01	xorafop
4	1100.0	Analyst	Thessaloniki	2020-04-07 00:00:00	2020-04-10	2020-04-01	xorafop
5	1600.0	HelpDesk	Pyrgos	2020-03-06 00:00:00	2020-05-08	2020-05-01	karela

OK



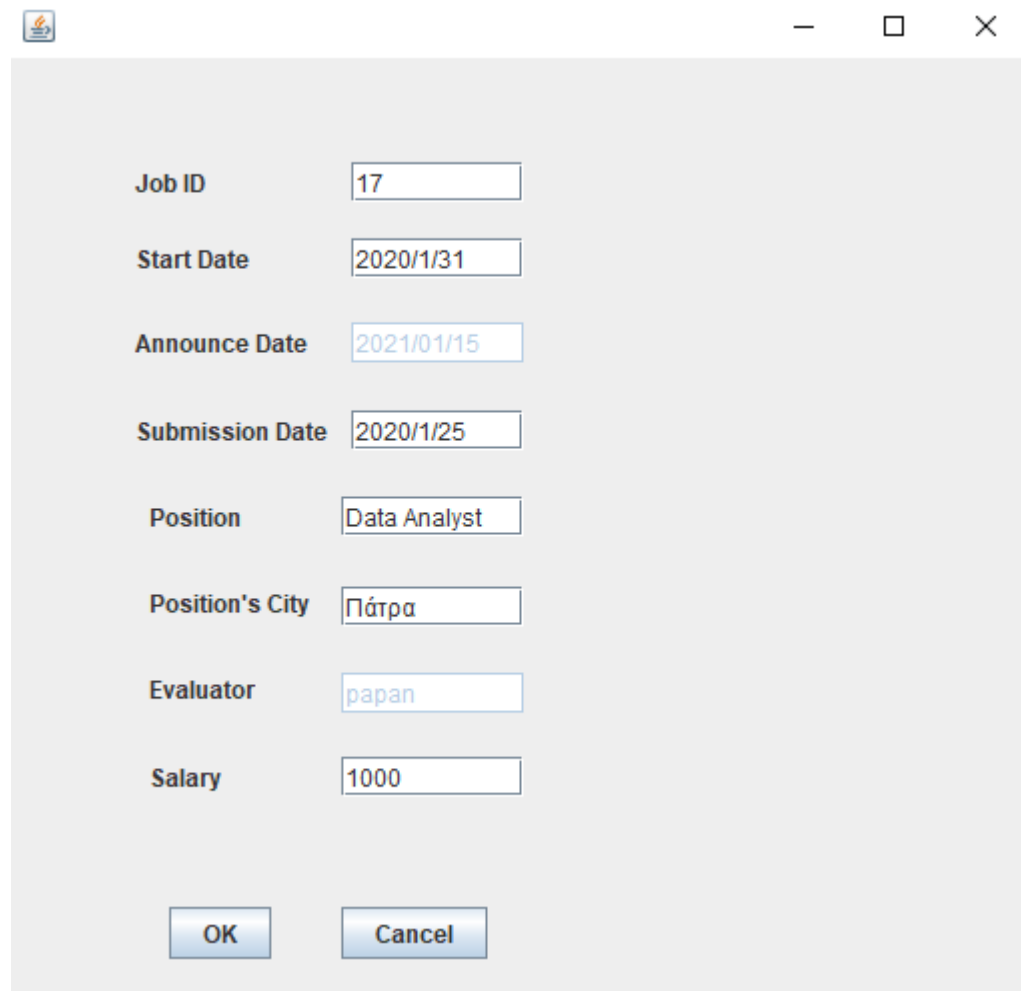
### 3.3.3 Λειτουργία 3 – Προσθήκη Νέας Θέσης Προαγωγής από Evaluator

Αν στο βασικό μενού με τις Λειτουργίες του Evaluator επιλέξουμε τη 3<sup>η</sup> λειτουργία με τίτλο ‘Εισαγωγή Θέσης Προαγωγής’ τότε εμφανίζεται η ακόλουθη εικόνα:



Job ID	<input type="text"/>
Start Date	<input type="text"/>
Announce Date	<input type="text" value="2021/01/15"/>
Submission Date	<input type="text"/>
Position	<input type="text"/>
Position's City	<input type="text"/>
Evaluator	<input type="text" value="papan"/>
Salary	<input type="text"/>
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	

Ο evaluator συμπληρώνει τα στοιχεία της νέας θέσης όπως στην επόμενη εικόνα:

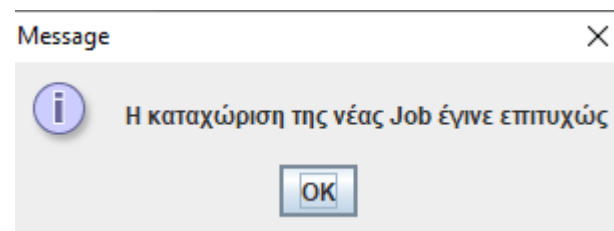


A screenshot of a software window for job registration. The window has a title bar with a small icon on the left and standard minimize, maximize, and close buttons on the right. The main area contains a form with the following fields:


Field	Value
Job ID	17
Start Date	2020/1/31
Announce Date	2021/01/15
Submission Date	2020/1/25
Position	Data Analyst
Position's City	Πάτρα
Evaluator	papan
Salary	1000

At the bottom of the form are two buttons: "OK" and "Cancel".

Όταν πατήσει OK η θέση καταχωρείται εμφανίζεται η ακόλουθη εικόνα



και η επιβεβαίωση γιατί είναι ότι αν επιλέξει και πάλι την 2<sup>η</sup> επιλογή του μενού του 'Εμφάνιση/Τροποποίηση των θέσεων που έχει ανακοινώσει εμφανίζεται η επόμενη εικόνα

 — □ ×

**Evaluator**

Job Id	Salary	Position	Edra	announce_date	submission_date	start_date	
11	1000.0	Secretary	Patra	2020-03-23 00:00:00	2020-03-23	2020-02-23	▲
13	1.0	man	pat	2020-12-12 00:00:00	2020-12-12	2020-12-12	≡
14	222.0	man	fgf	2021-01-01 00:00:00	2021-01-01	2021-01-01	▼
16	53.0	dsdsf	dsf	2020-12-01 00:00:00	2020-12-01	2021-01-01	
23	1.0	asd	asd	2021-01-11 00:00:00	2020-01-01	2020-01-01	
17	1000.0	Data Analyst	Πάτρα	2021-01-15 00:00:00	2020-01-25	2020-01-31	

Job Id	Salary	Position	Edra	announce_date	submission_date	start_date	evaluator	
1	2200.0	Main Manager	Patra	2020-08-01 00:00:00	2020-08-02	2020-07-21	xristop	▲
2	1600.0	Programmer	Athina	2020-02-03 00:00:00	2020-02-07	2020-02-01	xristop	≡
3	1000.0	Analyst	Pyrgos	2020-03-06 00:00:00	2020-03-08	2020-03-01	xorafop	▼
4	1100.0	Analyst	Thessaloniki	2020-04-07 00:00:00	2020-04-10	2020-04-01	xorafop	
5	1600.0	HelpDesk	Pyrgos	2020-03-06 00:00:00	2020-05-08	2020-05-01	karela	

OK

### 3.3.4 Λειτουργία 4 – Εμφάνιση Θέσεων/Εμφάνιση Εργασίας από Evaluator

Αν στο βασικό μενού με τις Λειτουργίες του Evaluator επιλέξουμε τη 4<sup>η</sup> λειτουργία με τίτλο 'Εμφάνιση/Τροποποίηση Θέσεων Εργασίας Evaluator' τότε εμφανίζεται η ακόλουθη εικόνα:



Evaluator

papan

Job Id	Salary	Position	Edra	announce_date	submission_date	start_date	
11	1650.0	Secretary	Patra	2020-03-23 00:00:00	2020-03-25	2020-02-23	▲
13	1.0	man	pat	2020-12-12 00:00:00	2020-12-12	2020-12-12	
14	222.0	man	fgf	2021-01-01 00:00:00	2021-01-01	2021-01-01	≡
16	53.0	dsdsf	dsf	2020-12-01 00:00:00	2020-12-01	2021-01-01	
23	1.0	asd	asd	2021-01-11 00:00:00	2020-01-01	2020-01-01	—
47	1000.0	Data Analyst	Πάτρα	2021-01-15 00:00:00	2020-01-25	2020-01-21	▼

OK

Κάνοντας διπλό κλικ σε μια θέση μπορεί να τροποποιήσει τα στοιχεία της

### 3.3.5 Λειτουργία 6 – Επιλογή Θέσης Εργασίας και κλήση stored procedure 3.3.

Για την εκτέλεση αυτής της λειτουργίας έχουμε ξαναγράψει την **stored procedure 3.3 ελαφρώς τροποποιημένη ως ακολούθως:**

```
drop procedure if exists proc3b;
```

```
delimiter $
```

```
create procedure proc3b(IN jbdid int,OUT ar_aitisis int,OUT jid int,OUT empl varchar(12),OUT eval varchar(12),OUT ta float(3,1))
```

```
begin
```

```
    declare nf int;
```

```
    -- declare ar_aitisis int;
```

```
    -- declare jid int;
```

```
    -- declare empl varchar(12);
```

```
    -- declare eval varchar(12);
```

```
declare bs int;
declare br int;
declare bl int;
declare uname varchar(25);
declare usname varchar(35);
declare final_grade float(3,1);
-- declare ta float(3,1);
declare counter int;
```

```
declare bcursor cursor for select distinct
evaluation_process.aa,evaluation_process.job_id,evaluation_process.username_emp,evaluation_process.username_eval,evaluation_process.teliko_apotelesma
from user,employee,evaluation_process,evaluator,requestsevaluation
where user.username=employee.username and employee.username=requestsevaluation.empl_username and
employee.username=evaluation_process.username_emp and evaluation_process.job_id=jbdid;
```

```
declare bcursor2 cursor for select distinct
evaluation_process.aa,evaluation_process.job_id,evaluation_process.username_emp,evaluation_process.username_eval,evaluation_process.teliko_apotelesma
from user,employee,evaluation_process,evaluator,requestsevaluation
where user.username=employee.username and employee.username=requestsevaluation.empl_username and
employee.username=evaluation_process.username_emp and
evaluation_process.job_id=jbdid
order by evaluation_process.teliko_apotelesma desc;
```

```
declare bcursor3 cursor for select distinct
evaluation_process.aa,evaluation_process.job_id,evaluation_process.username_emp,evaluation_process.username_eval,evaluation_process.teliko_apotelesma
from user,employee,evaluation_process,evaluator,requestsevaluation
where user.username=employee.username and employee.username=requestsevaluation.empl_username and
```

```
employee.username=evaluation_process.username_emp and evaluation_process.job_id=jbdid;
```

```
declare continue handler for not found set nf=1;
```

```
set nf=0;
```

```
set counter=0;
```

```
open bcursor;
```

```
repeat
```

```
    fetch bcursor into ar_aitisis,jid,empl,eval,ta;
```

```
    if (nf=0) then
```

```
        if (ta is null) then
```

```
            set counter=counter+1;
```

```
        end if;
```

```
    end if;
```

```
until (nf=1)
```

```
end repeat;
```

```
select 'Counter =',counter;
```

```
if (counter=0) then
```

```
    select 'ORISTIKOPOIHMENOI PINAKES';
```

```
    set nf=0;
```

```
open bcursor2;
```

```
repeat
```

```
    fetch bcursor2 into ar_aitisis,jid,empl,eval,ta;
```

```
    if (nf=0) then
```

```
        if (ta is not null) then
```

```
            select ar_aitisis,jid,empl,eval,ta;
```

```
        end if;
```

```
    end if;
```

```
until (nf=1)
```

```
end repeat;
```

```
end if;
```

```
if (counter<>0) then
```

```
    select 'AXIOLOGHSH SE EXELIXI. EKKREMOUN AKOMA: ',counter;
```

```
set nf=0;
```

```
open bcursor3;
```

```
repeat
```

```
    fetch bcursor3 into ar_aitisis,jid,empl,eval,ta;
```

```
    select ar_aitisis,jid,empl,eval,ta;
```

```
    select '-----';
```

```
    if (nf=0) then
```

```
        if (ta is not null) then
```

```
                select ar_aitisis,jid,empl,eval,ta;
            end if;
        end if;

    until (nf=1)
    end repeat;
end if;

end$
delimiter ;
```

Στη συνέχεια πατώντας το πλήκτρο Calls SP 3.3 και εμφανίζεται η ακόλουθη εικόνα:



Ευαλωτής

papan

Job Id	Salary	Position	Edra	announce_date	submission_date	start_date
11	1650.0	Secretary	Patra	2020-03-23 00:00:00	2020-03-25	2020-02-23
13	1.0	man	pat	2020-12-12 00:00:00	2020-12-12	2020-12-12
14	222.0	man	fgf	2021-01-01 00:00:00	2021-01-01	2021-01-01
16	53.0	dsdsf	dsf	2020-12-01 00:00:00	2020-12-01	2021-01-01
23	1.0	asd	asd	2021-01-11 00:00:00	2020-01-01	2020-01-01
17	1000.0	Data Analyst	Πάτρα	2021-01-15 00:00:00	2020-01-25	2020-01-21

Job Id

Θέση

Μισθός

Έδρα

Ανακοίνωση

Υποβολή

Έναρξη

Αποτελέσματα Proce...

Αριθμός Αίτησης

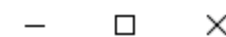
Αριθμός Job

Υπάλλη...

Τελικό Αποτέλ...

OK

Επιλέγοντας μια εργασία από τη λίστα εμφανίζονται αριστερά τα στοιχεία της και δεξιά τα αποτελέσματα της εκτέλεσης από την εκτέλεση της stored procedure 3.3



Evaluator

Job Id	Salary	Position	Edra	announce_date	submission_date	start_date	
11	1650.0	Secretary	Patra	2020-03-23 00:00:00	2020-03-25	2020-02-23	▲
13	1.0	man	pat	2020-12-12 00:00:00	2020-12-12	2020-12-12	
14	222.0	man	fgf	2021-01-01 00:00:00	2021-01-01	2021-01-01	≡
16	53.0	dsdsf	dsf	2020-12-01 00:00:00	2020-12-01	2021-01-01	
23	1.0	asd	asd	2021-01-11 00:00:00	2020-01-01	2020-01-01	
17	1000.0	Data Analyst	Πάτρα	2021-01-15 00:00:00	2020-01-25	2020-01-24	▼

Job Id

Θέση

Μισθός

Έδρα

Ανακοίνωση

Υποβολή

Έναρξη

Αποτελέσματα Proce...


Αριθμός Αίτησης

Αριθμός Job

Υπάλλη...

Τελικό Αποτέλ...

OK



—

□

×

Evaluator

papan

Job Id	Salary	Position	Edra	announce_date	submission_date	start_date
11	1650.0	Secretary	Patra	2020-03-23 00:00:00	2020-03-25	2020-02-23
13	1.0	man	pat	2020-12-12 00:00:00	2020-12-12	2020-12-12
14	222.0	man	fgf	2021-01-01 00:00:00	2021-01-01	2021-01-01
16	53.0	dsdsf	dsf	2020-12-01 00:00:00	2020-12-01	2021-01-01
23	1.0	asd	asd	2021-01-11 00:00:00	2020-01-01	2020-01-01
17	1000.0	Data Analyst	Πάτρα	2021-01-15 00:00:00	2020-01-25	2020-01-21

Job Id

3

Θέση

dsdsf

Μισθός

3

Έδρα

dsf

Ανακοίνωση

01 00:00:00

Υποβολή

2020-12-01

Έναρξη

021-01-01

Αποτελέσματα Proce...

Αριθμός Αίτησης

9

Αριθμός Job

3

Υπάλλη...

arg

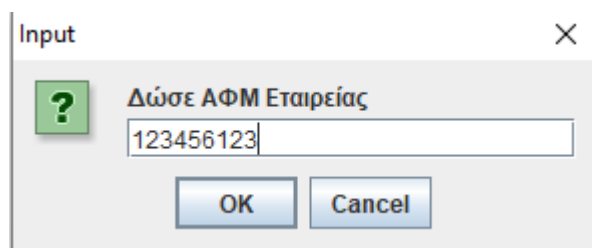
Τελικό Αποτέλ...

2.7

OK

### 3.3.6 Λειτουργία 7 – Εμφάνιση Θέσεων που έχουν αναρτηθεί από την εταιρεία/Τροποποίηση μόνο των δικών του θέσεων

Πατώντας την επιλογή 'Εμφάνιση Jobs Εταιρείας Evaluator' εμφανίζεται η ακόλουθη εικόνα: στην οποία συμπληρώνουμε το ΑΦΜ Εταιρείας όπως φαίνεται στην επόμενη εικόνα:

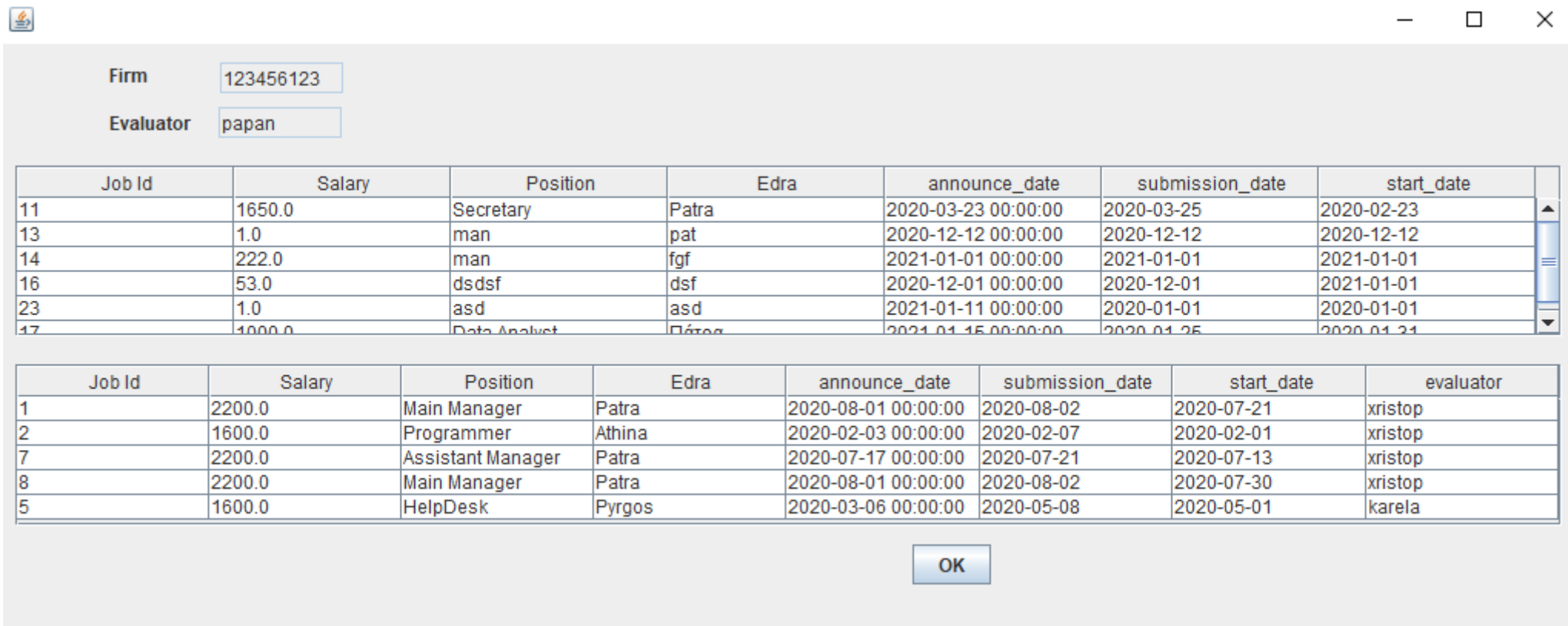


Input

Δώσε ΑΦΜ Εταιρείας

123456123

OK Cancel



Firm 123456123

Evaluator papan

Job Id	Salary	Position	Edra	announce_date	submission_date	start_date
11	1650.0	Secretary	Patra	2020-03-23 00:00:00	2020-03-25	2020-02-23
13	1.0	man	pat	2020-12-12 00:00:00	2020-12-12	2020-12-12
14	222.0	man	fgf	2021-01-01 00:00:00	2021-01-01	2021-01-01
16	53.0	dsdsf	dsf	2020-12-01 00:00:00	2020-12-01	2021-01-01
23	1.0	asd	asd	2021-01-11 00:00:00	2020-01-01	2020-01-01
17	1000.0	Data Analyst	Patra	2021-01-15 00:00:00	2020-01-25	2020-01-21

Job Id	Salary	Position	Edra	announce_date	submission_date	start_date	evaluator
1	2200.0	Main Manager	Patra	2020-08-01 00:00:00	2020-08-02	2020-07-21	xristop
2	1600.0	Programmer	Athina	2020-02-03 00:00:00	2020-02-07	2020-02-01	xristop
7	2200.0	Assistant Manager	Patra	2020-07-17 00:00:00	2020-07-21	2020-07-13	xristop
8	2200.0	Main Manager	Patra	2020-08-01 00:00:00	2020-08-02	2020-07-30	xristop
5	1600.0	HelpDesk	Pyrgos	2020-03-06 00:00:00	2020-05-08	2020-05-01	karela

OK

Στην 1<sup>η</sup> λίστα εμφανίζεται των θέσεων που έχει αναρτήσει ο ίδιος και μπορεί να τις επεξεργαστεί

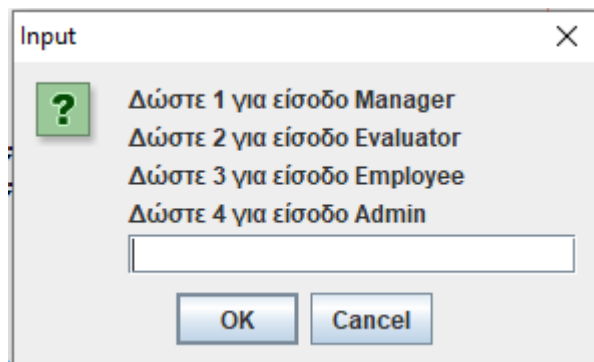
Στην 2<sup>η</sup> λίστα εμφανίζεται των θέσεων που έχει αναρτήσει ο ίδιος αλλά άλλοι evaluator και της εταιρίας του δεν μπορεί να τις επεξεργαστεί

Πράγματι αν κάνει διπλό κλικ στην 1<sup>η</sup> λίστα ο evaluator μπορεί να επεξεργαστεί και να τροποποιήσει οποιαδήποτε θέση που έχει ανακοινώσει ο ίδιος. Αν επιχειρήσει να κάνει όμως διπλό κλικ όμως στη 2<sup>η</sup> λίστα αυτή είναι κλειδωμένη και τον εμποδίζει να κάνει οποιαδήποτε τροποποίηση,

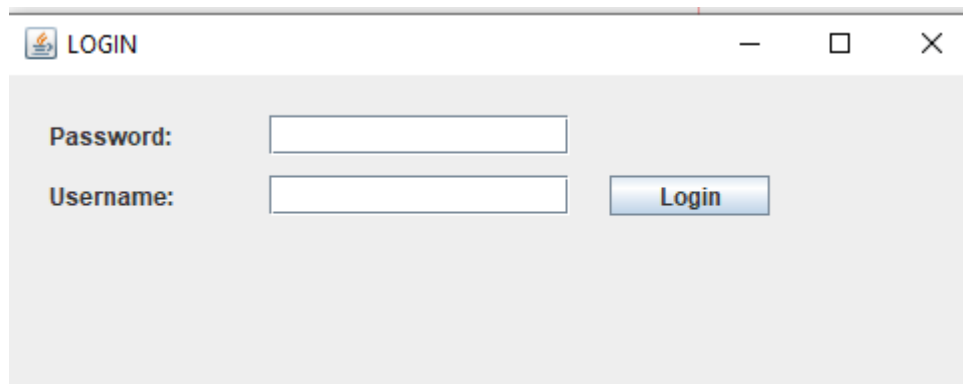
### 3.4 Λειτουργίες Υπαλλήλου (Employee)

Στα παραδείγματα που παραθέτουμε χρησιμοποιούμε ως Employee το χρήστη με username arg.

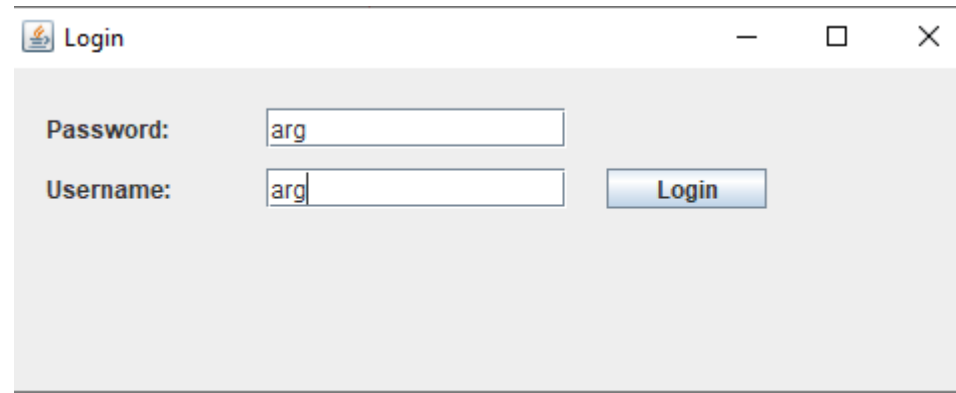
Αρχικά γίνεται είσοδος του Employee εκτελώντας το αρχείο login.java. Εμφανίζεται το ακόλουθο παράθυρο:



Ακολούθως εμφανίζεται το παράθυρο LOGIN για να εισάγει ο Employee τα στοιχεία του:

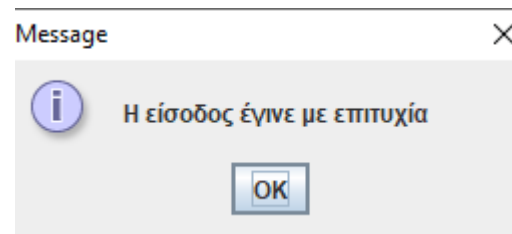


Συμπληρώνει τα στοιχεία του:

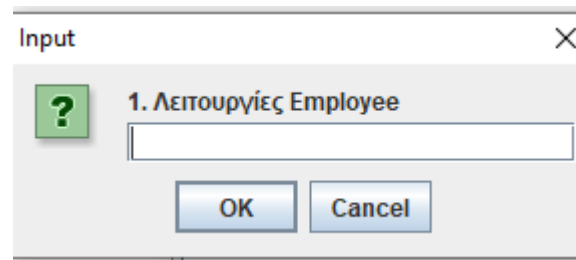


A screenshot of a 'Login' window. It has a title bar with a small icon and the text 'Login', and standard minimize, maximize, and close buttons. The window contains two text input fields. The first is labeled 'Password:' and contains the text 'arg'. The second is labeled 'Username:' and also contains the text 'arg'. To the right of the 'Username' field is a blue button labeled 'Login'.

και εμφανίζεται το ακόλουθο μήνυμα:

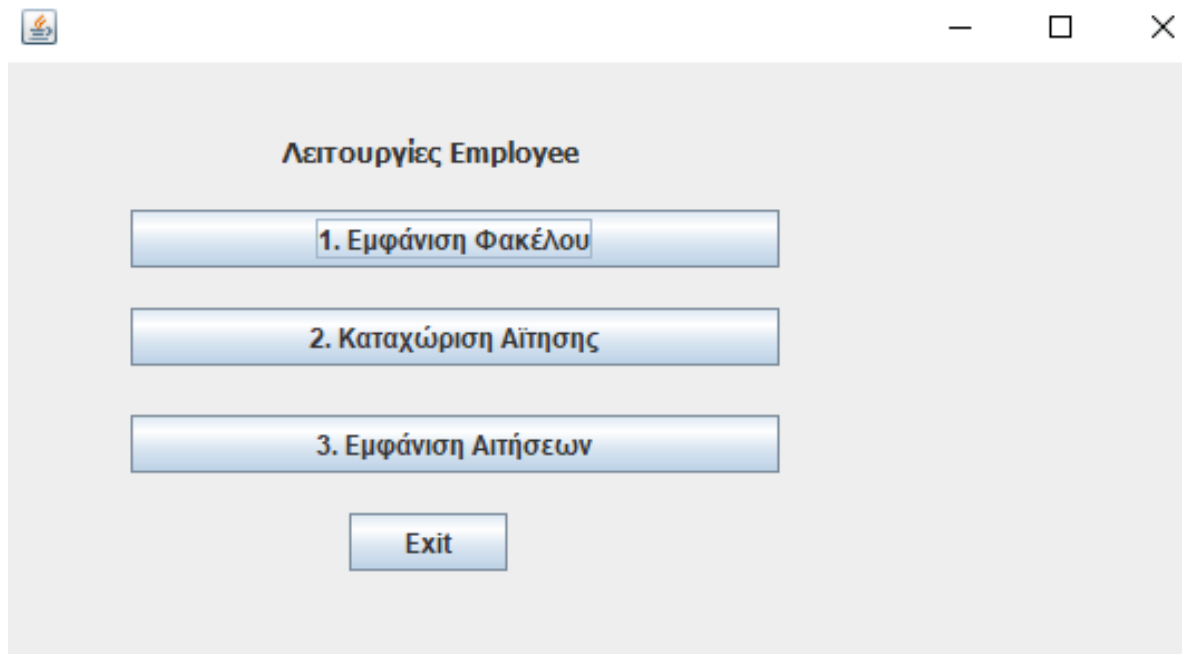


Μετά εμφανίζεται η ακόλουθη εικόνα:



A screenshot of an 'Input' dialog box. It has a title bar with the text 'Input' and a close button. The dialog contains a green question mark icon and the text '1. Λειτουργίες Employee'. Below the text is a text input field. At the bottom are 'OK' and 'Cancel' buttons.

Εκεί δίνουμε την τιμή 1 και εμφανίζεται το επόμενο μενού με τις λειτουργίες του Employee



#### **3.4.1 Λειτουργία 1 – Εμφάνιση Φακέλου και Επεξεργασία των Στοιχείων του**

Πατώντας το πλήκτρο Έμφάνιση Φακέλου εμφανίζεται το ακόλουθο παράθυρο:

Εμφάνιση/Τροποποίηση Στοιχείων

Employee	arg
Password	arg
Όνομα	Nikos
Πατρώνυμο	Argyriadis
Ημερομηνία Εγγραφής	2020-12-01 00:00:00
Email	argiriad@gmail.com
Βιογραφικό	Proyphresia se networks
Συστατικές	Δεν έχει συστατικές
Πιστοποιητικά	Arg_certificates.pdf
Awards	Arg_awards.pdf

OK Cancel

Ο employee βλέπει το φάκελο του και μπορεί να τροποποιήσει μόνο password και Βιογραφικό Για παράδειγμα έστω ότι ο υπάλληλος arg τροποποιεί το βιογραφικό του




Εμφάνιση/Τροποποίηση Στοιχείων

Employee	arg
Password	arg
Όνομα	Nikos
Πατρώνυμο	Argyriadis
Ημερομηνία Εγγραφής	2020-12-01 00:00:00
Email	argiriad@gmail.com
Βιογραφικό	Προϋπηρεσία σε Web
Συστατικές	Δεν έχει συστατικές
Πιστοποιητικά	Arg_certificates.pdf
Awards	Arg_awards.pdf

OK Cancel

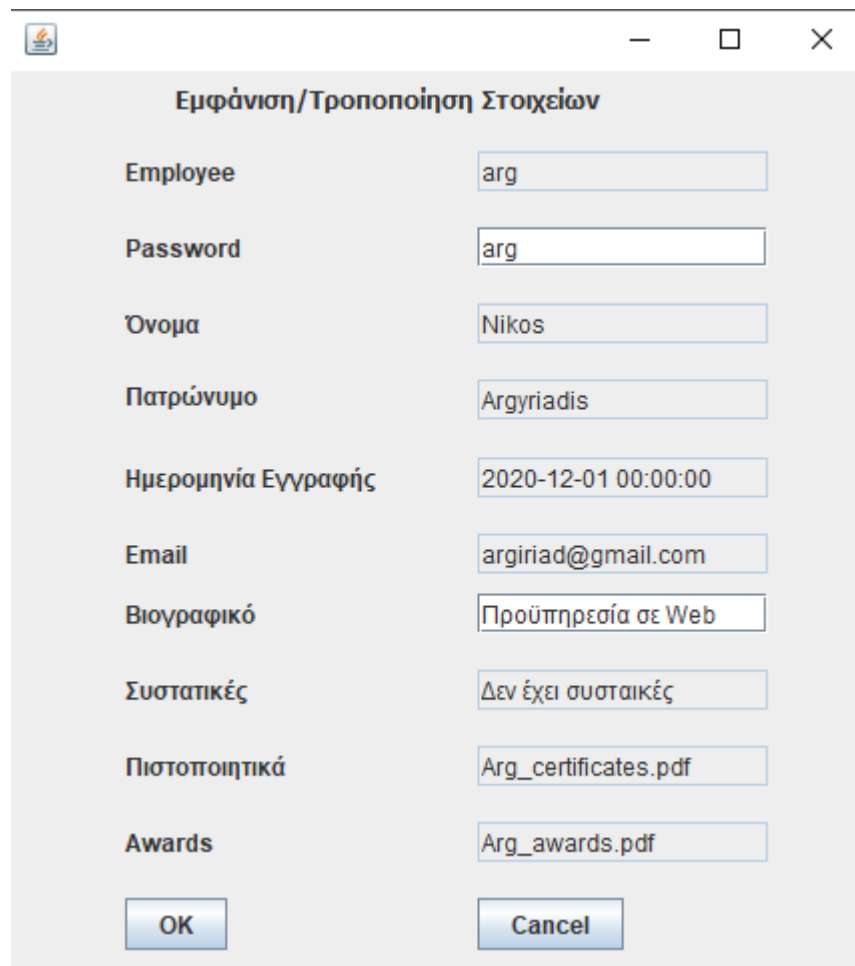
και πατώντας OK εμφανίζεται το ακόλουθο μήνυμα:

Message

 Η τροποποίηση του φακέλου του Employee έγινε επιτυχώς

OK

Αν ξαναπατήσουμε το ίδιο πλήκτρο παρατηρούμε ότι η αλλαγή έχει καταχωρηθεί



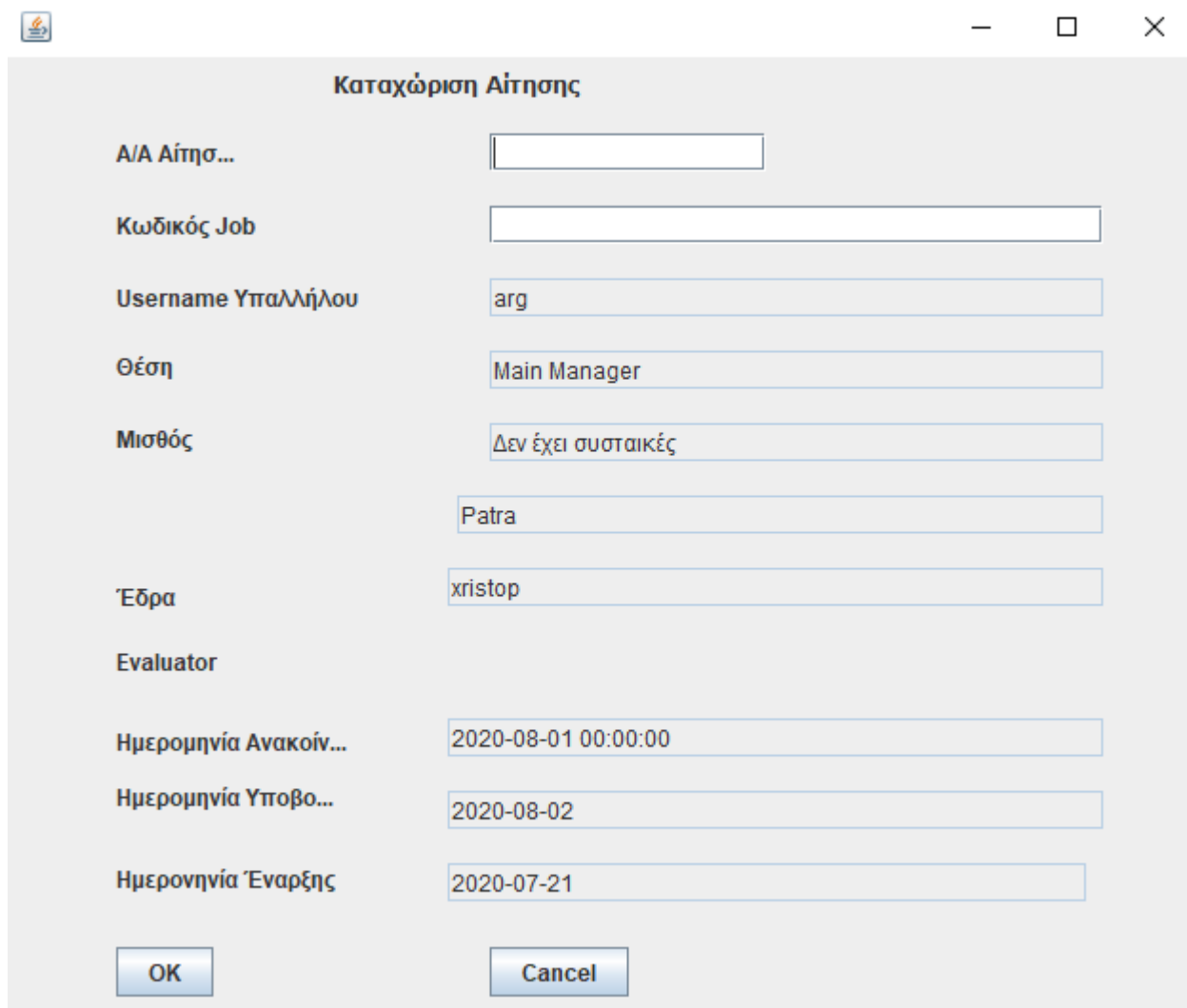
**Εμφάνιση/Τροποποίηση Στοιχείων**

Employee	arg
Password	arg
Όνομα	Nikos
Πατρώνυμο	Argyriadis
Ημερομηνία Εγγραφής	2020-12-01 00:00:00
Email	argiriad@gmail.com
Βιογραφικό	Προϋπηρεσία σε Web
Συστατικές	Δεν έχει συστατικές
Πιστοποιητικά	Arg_certificates.pdf
Awards	Arg_awards.pdf

OK Cancel

### 3.4.2 Λειτουργία 2 – Καταχώριση Αίτησης σε ανοιχτές θέσεις

Πατώντας τη 2<sup>η</sup> επιλογή 'Καταχώριση Αίτησης' εμφανίζεται η ακόλουθη εικόνα:




The screenshot shows a Windows-style dialog box titled "Καταχώριση Αίτησης". It contains the following fields and values:

Field Label	Value
A/A Αίτησ...	
Κωδικός Job	
Username Υπαλλήλου	arg
Θέση	Main Manager
Μισθός	Δεν έχει συστατικές
	Patra
Έδρα	xristop
Evaluator	
Ημερομηνία Ανακοίν...	2020-08-01 00:00:00
Ημερομηνία Υποβο...	2020-08-02
Ημερομηνία Έναρξης	2020-07-21

At the bottom of the dialog are two buttons: "OK" and "Cancel".

Ο Υπάλληλος συμπληρώνει τα στοιχεία μιας νέας αίτησης όπως στο επόμενο σχήμα:


 — □ ×

### Καταχώριση Αίτησης

A/A Αίτησ...	<input type="text" value="18"/>
Κωδικός Job	<input type="text" value="1"/>
Username Υπαλλήλου	<input type="text" value="arg"/>
Θέση	<input type="text" value="Main Manager"/>
Μισθός	<input type="text" value="Δεν έχει συστακίες"/>
	<input type="text" value="Patra"/>
Έδρα	<input type="text" value="xristop"/>
Evaluator	
Ημερομηνία Ανακοίν...	<input type="text" value="2020-08-01 00:00:00"/>
Ημερομηνία Υποβο...	<input type="text" value="2020-08-02"/>
Ημερομηνία Έναρξης	<input type="text" value="2020-07-21"/>

Πατώντας OK εμφανίζεται το επόμενο μήνυμα:

Message ×

 Η καταχώριση της νέας Αίτησης έγινε επιτυχώς

### 3.4.3 Λειτουργία 3 – Εμφάνιση Υποβληθέντων Αιτήσεων

Πατώντας τη 2<sup>η</sup> επιλογή 'Εμφάνιση Αιτήσεων' εμφανίζεται η ακόλουθη εικόνα:

Εμφάνιση Υποβληθέντων Αιτήσεων

Υπάλληλος

arg

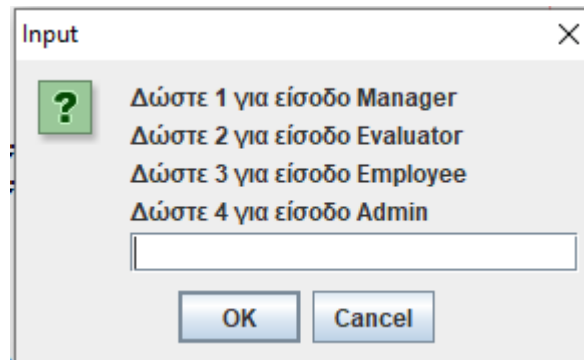
A/A Aitisis	Job ID	Salary	Position	Edra	announce_date	submission_date	start_date
1	6	2000.0	Assistant Mana...	Patra	2020-06-17 00:...	2020-06-27	2020-06-11
3	6	2000.0	Assistant Mana...	Patra	2020-06-17 00:...	2020-06-27	2020-06-11
14	1	2200.0	Main Manager	Patra	2020-08-01 00:...	2020-08-02	2020-07-21
18	1	2200.0	Main Manager	Patra	2020-08-01 00:...	2020-08-02	2020-07-21

OK

Παρατηρούμε ότι ως επιβεβαίωση ότι η προηγούμενη αίτηση έχει καταχωρηθεί στο σύστημα

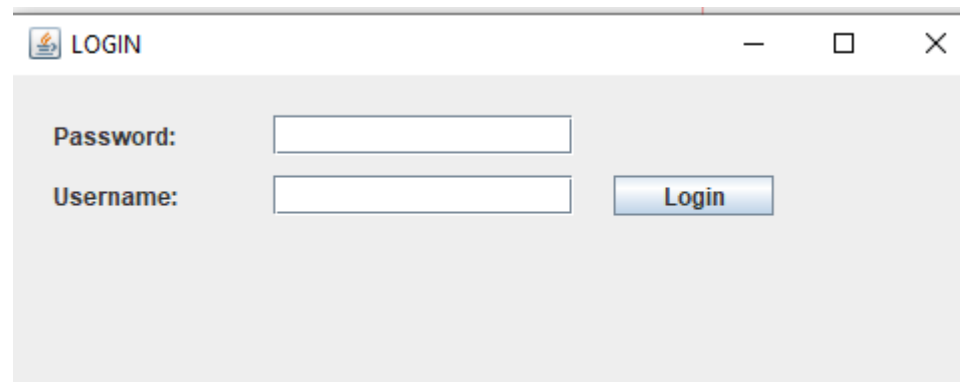
### 3.5 Λειτουργίες Διαχειριστή (Admin)

Αρχικά γίνεται είσοδος του Διαχειριστή εκτελώντας το αρχείο login.java. Εμφανίζεται το ακόλουθο παράθυρο:



A Java-style input dialog box titled "Input" with a close button (X) in the top right corner. On the left side, there is a green square icon containing a white question mark. To the right of the icon, the following text is displayed: "Δώστε 1 για είσοδο Manager", "Δώστε 2 για είσοδο Evaluator", "Δώστε 3 για είσοδο Employee", and "Δώστε 4 για είσοδο Admin". Below this text is a single-line text input field. At the bottom of the dialog, there are two buttons: "OK" and "Cancel".

Ακολούθως εμφανίζεται το παράθυρο LOGIN για να εισάγει ο Admin τα στοιχεία του:



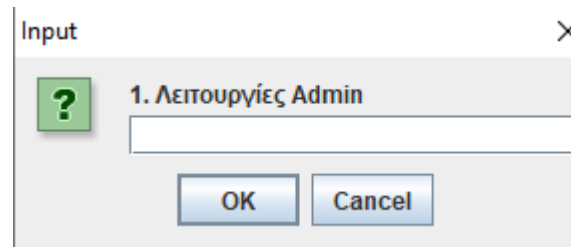
A Java-style dialog box titled "LOGIN" with a login icon in the top left corner and standard window controls (minimize, maximize, close) in the top right corner. The dialog has a light gray background. It contains two labels: "Password:" and "Username:". Each label is followed by a single-line text input field. To the right of the "Username:" input field is a blue button with the text "Login".

Συμπληρώνει τα στοιχεία του:



A screenshot of a Windows-style login window titled "Login". It features a title bar with a small icon, a maximize button, and a close button. The main area contains two labels: "Password:" and "Username:". The "Password:" label is followed by a text input field containing the text "admin". The "Username:" label is followed by a text input field containing the text "admin". To the right of the "Username:" input field is a blue button with the text "Login".

Εμφανίζεται το επόμενο παράθυρο στο οποίο εισάγει το 1:



A screenshot of a small dialog box titled "Input" with a close button in the top right corner. On the left side, there is a green square icon containing a white question mark. To the right of the icon, the text "1. Λειτουργίες Admin" is displayed. Below this text is a single-line text input field. At the bottom of the dialog box, there are two buttons: "OK" and "Cancel".

και εμφανίζεται το ακόλουθο μενού:



## Λειτουργίες Admin

1.Νέος Λογαριασμός Διευθυντή (Manager)

2.Νέος Λογαριασμός Αξιολογητή (Evaluator)

3.Νέος Λογαριασμός Υπαλλήλου (Employee)

4.Νέα Εταιρεία

6. Νέο Αντικείμενο

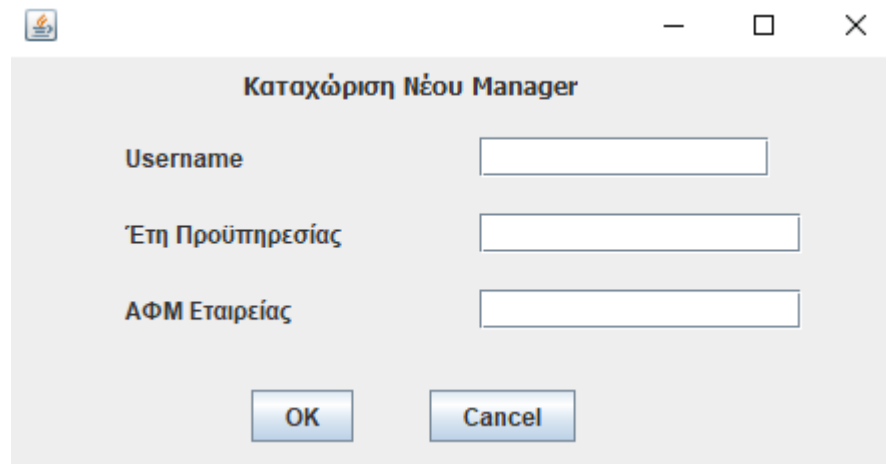
7. Νέος Τομέας

Exit



### 3.5.1 Λειτουργία 1 – Δημιουργία Λογαριασμού για νέο Διευθυντή

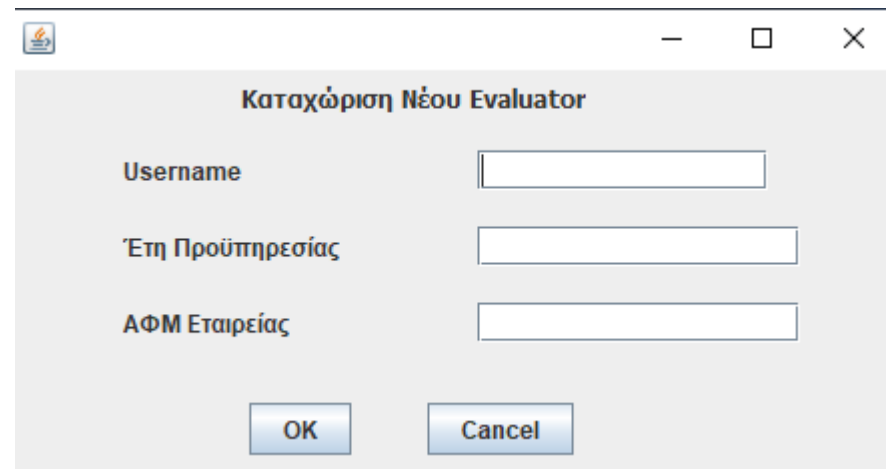
Πατώντας την 1<sup>η</sup> επιλογή '1. Νέος Λογαριασμός Διευθυντή (Manager)' εμφανίζεται η ακόλουθη εικόνα όπου καταχωρούμε τα στοιχεία για ένα νέο Διευθυντή:



The screenshot shows a Windows-style dialog box titled "Καταχώριση Νέου Manager". It contains three text input fields labeled "Username", "Έτη Προϋπηρεσίας", and "ΑΦΜ Εταιρείας". At the bottom, there are two buttons: "OK" and "Cancel".

### 3.5.2 Λειτουργία 2 – Δημιουργία Λογαριασμού για νέο Αξιολογητή

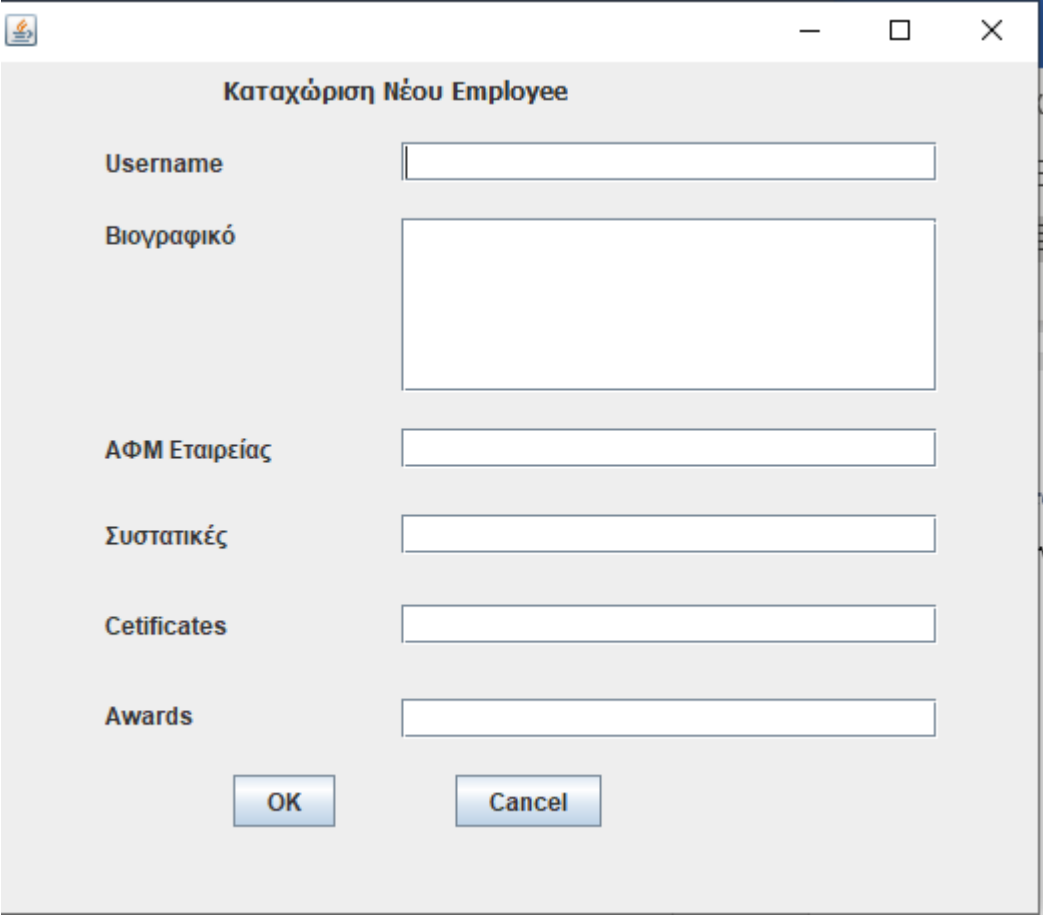
Πατώντας την 2<sup>η</sup> επιλογή '2. Νέος Λογαριασμός Αξιολογητή (Evaluator)' εμφανίζεται η ακόλουθη εικόνα όπου καταχωρούμε τα στοιχεία για ένα νέο αξιολογητή



The screenshot shows a Windows-style dialog box titled "Καταχώριση Νέου Evaluator". It contains three text input fields labeled "Username", "Έτη Προϋπηρεσίας", and "ΑΦΜ Εταιρείας". At the bottom, there are two buttons: "OK" and "Cancel".

### 3.5.3 Λειτουργία 3 – Δημιουργία Λογαριασμού για νέο Υπάλληλο

Πατώντας την 3<sup>η</sup> επιλογή '3. Νέος Λογαριασμός Υπαλλήλου (Employee)' εμφανίζεται η ακόλουθη εικόνα όπου καταχωρούμε τα στοιχεία για ένα νέο υπάλληλο



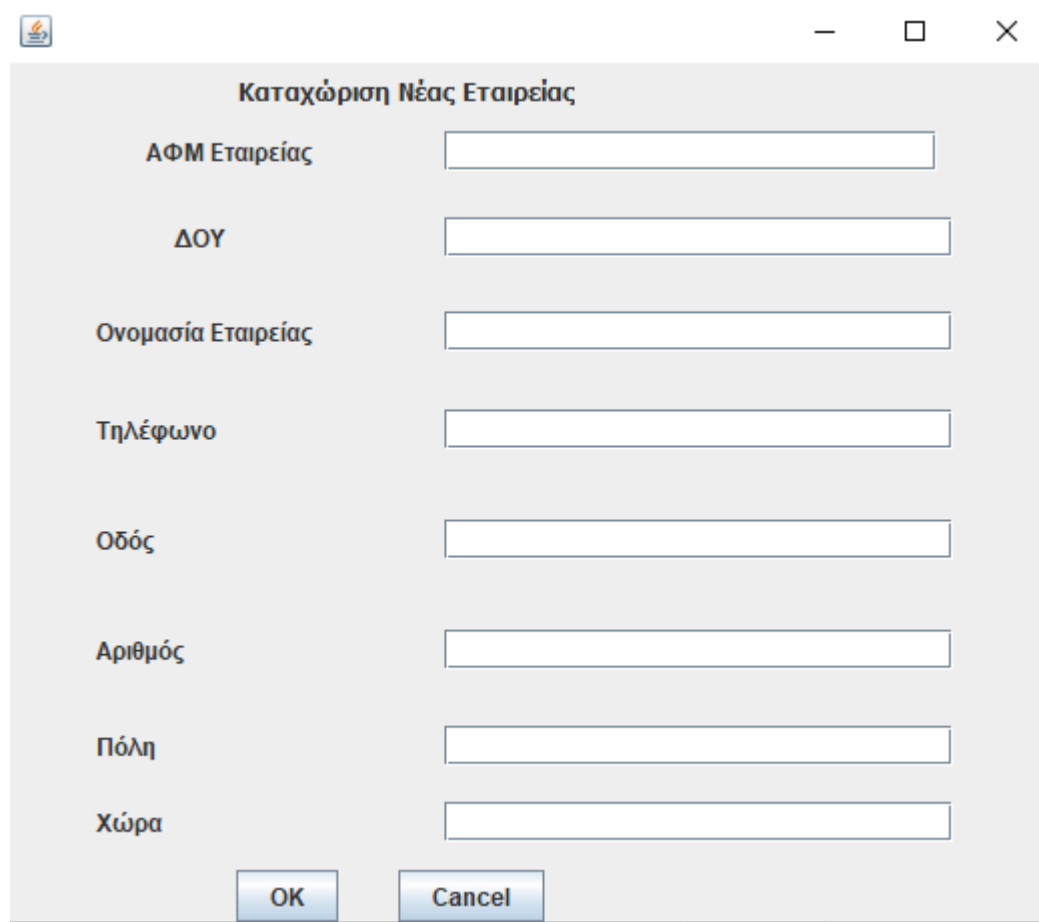
The image shows a Windows-style dialog box titled "Καταχώριση Νέου Employee". It contains several input fields for user registration:

- Username**: A single-line text input field.
- Βιογραφικό**: A large multi-line text area for a biography or resume.
- ΑΦΜ Εταιρείας**: A single-line text input field for the company's VAT number.
- Συστατικές**: A single-line text input field for references.
- Cetificates**: A single-line text input field for certificates.
- Awards**: A single-line text input field for awards.

At the bottom of the dialog, there are two buttons: "OK" and "Cancel".

### 3.5.4 Λειτουργία 4 – Δημιουργία νέα Εταιρείας

Πατώντας την 4<sup>η</sup> επιλογή '4.Νέα Εταιρεία' εμφανίζεται η ακόλουθη εικόνα όπου καταχωρούμε τα στοιχεία για μια νέα εταιρεία



**Καταχώριση Νέας Εταιρείας**

ΑΦΜ Εταιρείας

ΔΟΥ

Ονομασία Εταιρείας

Τηλέφωνο

Οδός

Αριθμός

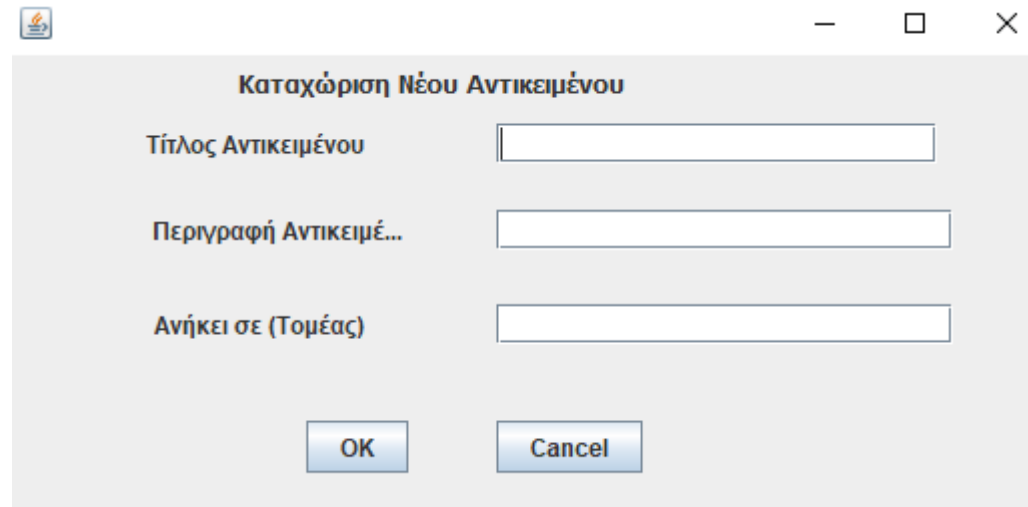
Πόλη

Χώρα

OK Cancel

### 3.5.5 Λειτουργία 5 – Δημιουργία νέου Αντικειμένου

Πατώντας την 5<sup>η</sup> επιλογή '5. Νέο Αντικείμενο' εμφανίζεται η ακόλουθη εικόνα όπου καταχωρούμε τα στοιχεία για ένα νέο αντικείμενο



Καταχώριση Νέου Αντικειμένου

Τίτλος Αντικειμένου

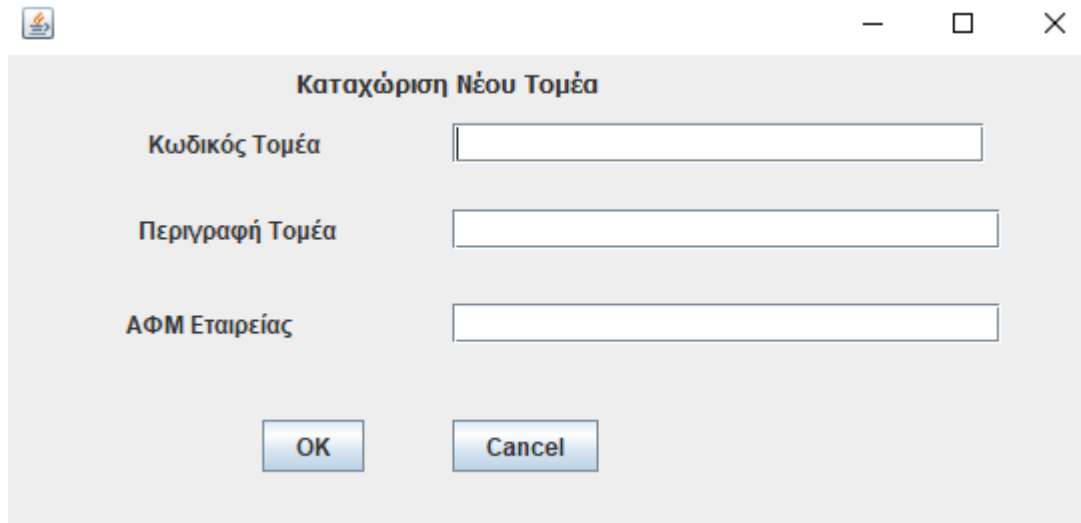
Περιγραφή Αντικειμέ...

Ανήκει σε (Τομέας)

OK Cancel

### 3.5.6 Λειτουργία 6 – Δημιουργία Λογαριασμού για νέο Αντικείμενο

Πατώντας την 6<sup>η</sup> επιλογή '6. Νέο Αντικείμενο' εμφανίζεται η ακόλουθη εικόνα όπου καταχωρούμε τα στοιχεία για ένα νέο τομέα της εταιρείας



The screenshot shows a standard Windows dialog box with the title "Καταχώριση Νέου Τομέα". It contains three text input fields for data entry: "Κωδικός Τομέα", "Περιγραφή Τομέα", and "ΑΦΜ Εταιρείας". At the bottom of the dialog are two buttons, "OK" and "Cancel", for confirming or dismissing the input.

Στην επιλογή αυτή δημιουργήσαμε ένα νέο πίνακα σύμφωνα με τις ακόλουθες εντολές:

```
create table tomas(ko int not null,description varchar(50),AFM char(9),primary key(ko), constraint wz foreign key(AFM) references company(AFM));  
insert into tomas values(1,'Kataskeyazei logistika kai emporika paketa','123456123');  
insert into tomas values(2,'Kataskeyazei paketa sxediasis gia mixanikous','123456123');
```

## Παράρτημα με Κώδικα Βάσης

```
drop database if exists staffevaluation;
```

```
create database staffevaluation;
```

```
use staffevaluation;
```

```
create table company(AFM char(9) primary key not null,DOY varchar(15), name varchar(35), phone bigint(16),street varchar(15),num tinyint(4), city varchar(15),country varchar(15));
```

```
create table antikeim(title varchar(35) primary key, descr tinytext, belongs_to varchar(36),constraint b foreign key(belongs_to) references antikeim(title));
```

```
create table user(username varchar(12) primary key,password varchar(10),name varchar(25),surname varchar(35), reg_date datetime, email varchar(20),constraint c foreign key(username) references manager(username) on delete cascade on update cascade);
```

```
create table manager(managerusername varchar(12),exp_years tinyint(4),firm char(9),primary key(managerusername,firm), constraint a1 foreign key(firm) references company(AFM), constraint a2 foreign key(managerusername) references user(username));
```

```
create table employee(username varchar(12) primary key,bio text,sistatikes varchar(35), certificates varchar(35), awards varchar(35));
```

```
create table evaluator(username varchar(12) primary key, exp_years tinyint(4), firm char(9), constraint d foreign key(username) references manager(username) on delete cascade on update cascade, constraint e foreign key(firm) references company(AFM) on delete cascade on update cascade);
```

```
create table job(id int(4) primary key, start_date date, salary float(6,1),position varchar(40), edra varchar(45), evaluator varchar(12), announce_date datetime, submission_date date,constraint f foreign key(evaluator) references evaluator(username) on delete cascade on update cascade);
```

```
create table project(empl varchar(12),num tinyint(4),descr text, url varchar(60),primary key(empl,num), constraint f foreign key(num) references needs(job_id) on delete cascade on update cascade);
```

```
create table needs(job_id int(4),antikeim_title varchar(36),primary key(job_id,antikeim_title), constraint g foreign key(antikeim_title) references antikeim(title) on delete cascade on update cascade);
```

```
create table requestsevaluation(empl_username varchar(12),job_id int(4),primary key(empl_username,job_id),constraint h foreign key(empl_username) references employee(username) on delete cascade on update cascade, constraint j foreign key(job_id) references job(job_id) on delete cascade on update cascade);
```

```
create table languages(employee varchar(12) primary key, lang set('EN','FR','SP','GR'), constraint k foreign key(employee) references employee(username) on delete cascade on update cascade);
```

```
create table degree(titlos varchar(50), idryma varchar(40),primary key(titlos,idryma));
```

```
create table has_degree(degr_title varchar(50), degr_idryma varchar(40),empl_username varchar(12), etos year(4), grade float(3,1), primary key(degr_title,degr_idryma,empl_username),constraint m foreign key(degr_title) references degree(title),constraint n foreign key(empl_username) references employee(username));
```

```
create table evaluationresult(Evld int(4) not null auto_increment, empl_username varchar(12), job_id int(4), grade int(4), comments varchar(255),primary key(evld,empl_username), constraint p foreign key(empl_username) references employee(username), constraint q foreign key(job_id) references job(job_id));
```

```
create table evaluation_process(aa int primary key,job_id int,  
bathmos_synenteyxis ENUM('0','1','2','3','4'),sxolia_synenetyxis text,xaraktirismos_synenteyxis ENUM('1','2','3'),  
bathmos_report ENUM('0','1','2','3','4'), sxolia_report text,xaraktirismos_report ENUM('1','2','3'),  
bathmos_loipon ENUM('0','1','2'),sxolia_loipon text,xaraktirismos_loipon ENUM('1','2','3'),  
username_eval varchar(12),  
username_emp varchar(12),  
teliko_apotelesma float (3,1),  
constraint z1 foreign key(username_eval) references evaluator(username),
```

```
constraint z2 foreign key(username_emp) references employee(username),
constraint z3 foreign key(job_id) references job(job_id));
```

```
create table ypoboli_aitiseon(aa_aitisis int primary key auto_increment,job_id int, eusername varchar(12), constraint t foreign key(job_id) references job(job_id),constraint z
foreign key(eusername) references employee(username));
```

```
create table log(username varchar(12),hmer_ora datetime,apotelesma varchar(20),eidos_energeias varchar(20),onoma_pinaka varchar(20));
```

```
-----
insert into company values('123456123','A Patras','Kataskeyasti Patras','2610-394509','Korinthou',10,'Patras','Greece');
insert into company values('123456888','B Patras','Emporio Sidiroy Patras','2610-324317','Avlonos',20,'Patras','Greece');
insert into company values('100045608','Pyrgou','Emporio Domion Ylikon','23610-52455','Korinthou',87,'Patras','Greece');
```

```
insert into user values('admin','admin','Manos','Giannakopoulos','2020-1-1','manos@gmail.com');
insert into user values('arg','000','Nikos','Argyriadis','2020-12-1','argiriad@gmail.com');
insert into user values('manolop','657','Kostas','Manolopoulos','2020-11-1','manolop@gmail.com');
insert into user values('giannakoy','123','Maria','Giannakou','2020-11-1','gianakou@gmail.com');
insert into user values('dimop','233','Giorgos','Dimopoulos','2019-11-10','dimop$hotmail.com');
insert into user values('delig','999','Andreas','Deligiannis','2018-6-10','delig$hotmail.com');
insert into user values('dalak','551','Anna','Dalaka','2017-1-9','dalak$hotmail.com');
insert into user values('papan','112','Nikos','Papanikolaou','2020-1-1','argiriad@hotmail.com');
insert into user values('papag','555','Kostas','Papageorgiou','2020-9-1','papag@hotmail.com');
insert into user values('papad','563','Vasilis','Papdionysiou','2020-8-1','papad@gmail.com');
insert into user values('xristop','345','Eleni','Papanikolaou','2020-51-1','xristop@gmail.com');
insert into user values('xorafop','346','Anna','Papageorgiou','2020-7-1','xorafop@gmail.com');
insert into user values('karela','347','Sofia','Karela','2020-4-1','karela@gmail.com');
```



```
insert into manager values('papan',10,'123456123');
insert into manager values('papag',8,'123456888');
insert into manager values('papad',7,'100045608');
```

```
insert into employee values('arg','Exei megali Proyphresia se networks','exei polles sistatikes','arg_certificates.pdf','arg_awards.pdf');
insert into employee values('manolop','Exei mikri Proyphresia se networks','exei liges sistatikes','manolop_certificates.pdf','manolop_awards.pdf');
insert into employee values('giannakoy','Exei sxetika megali Proyphresia se Databases','exei arrketes sistatikes','giannakoy_certificates.pdf','giannakoy_awards.pdf');
insert into employee values('dimop','Exei Proyphresia se Databases','exei sistatikes apo proigoumenes douleis','dimop_certificates.pdf','dimop_awards.pdf');
insert into employee values('delig','Exei doulepsei poly se ierarxikes Databases','exei liges sistatikes','delig.pdf','delig.pdf');
insert into employee values('dalak','Exei empeiria se Databases kai Networks','Polles sistatikes','dalak_certificates.pdf','dalak_awards.pdf');
```

```
insert into employee values('karela','Enai i pio kali evaluator','Polles systatikes','karela_certificates.pdf','karela_awards.pdf');
insert into employee values('xristop','Enai i pio kali evaluator','Liges systatikes','xristop_certificates.pdf','xristop_awards.pdf');
insert into employee values('xorafop','Enai i pio kali evaluator','Polles systatikes','xorafop_certificates.pdf','xorafop_awards.pdf');
```

```
insert into evaluator values('papan',9,'123456123');
insert into evaluator values('papag',8,'123456888');
insert into evaluator values('papad',7,'100045608');
```

```
insert into evaluator values('xristop',10,'123456123');
insert into evaluator values('xorafop',20,'123456888');
insert into evaluator values('karela',15,'123456123');
insert into evaluator values('karela',15,'123456888');
```

```
insert into antikeim values('Networks','Root Element',NULL);
insert into antikeim values('Local Area Networks','Second Level Element','Networks');
insert into antikeim values('Wide Area Networks','Second Level Element','Networks');
insert into antikeim values('Metropolitan Area Networks','Second Level Element','Networks');
insert into antikeim values('Databases','Root Element',NULL);
insert into antikeim values('MySQL','Second Level Element','Databases');
insert into antikeim values('SQL Server','Second Level Element','Databases');
```

```
insert into job values(1,'2020-1-1',1500,'Programmer','Patra','xristop','2020-1-2','2020-1-5');
insert into job values(2,'2020-2-1',1600,'Programmer','Athina','xristop','2020-2-3','2020-2-7');
insert into job values(3,'2020-3-1',1000,'Analyst','Pyrgos','xorafop','2020-3-6','2020-3-8');
insert into job values(4,'2020-4-1',1100,'Analyst','Thessaloniki','xorafop','2020-4-7','2020-4-10');
insert into job values(5,'2020-5-1',1600,'HelpDesk','Pyrgos','karela','2020-3-6','2020-5-8');
insert into job values(6,'2020-6-11',2000,'Assistant Manager','Patra','xorafop','2020-6-17','2020-6-27');
insert into job values(7,'2020-7-13',2200,'Assistant Manager','Patra','xristop','2020-7-17','2020-7-21');
```

```
insert into job values(9,'2020-2-13',1300,'Assistant Secretary','Pyrgos','papag','2020-3-13','2020-3-15');
insert into job values(10,'2020-2-3',1400,'Assistant Secretary','Thessaloniki','papad','2020-3-3','2020-3-5');
insert into job values(11,'2020-2-23',1200,'Secretary','Patra','papan','2020-3-23','2020-3-25');
```

```
insert into project values('arg',1,'Kataskeyi Topikou Diktyou','http://www.ceid.upatras.gr');
insert into project values('arg',2,'Kataskeyi WAN','http://www.ceid.upatras.gr');
insert into project values('manolop',1,'Kataskeyi sxesiakou RDBMS','http://www.ceid.upatras.gr');
insert into project values('manolop',2,'Kataskeyi ierarxikou RDBMS','http://www.ceid.upatras.gr');
insert into project values('arg',3,'Kataskeyi Topikou Diktyou','http://www.diktya.gr');
```

```
insert into project values('arg',4,'Kataskeyi WAN','http://www.ceid.upatras.gr');
insert into project values('manolop',5,'Kataskeyi sxesiakou RDBMS','http://www.ece.upatras.gr');
insert into project values('manolop',6,'Kataskeyi dentrikou RDBMS','http://www.ece.upatras.gr');
insert into project values('delig',1,'Epektasi Database Etaireias','http://www.database.gr');
insert into project values('dalak',1,'Epektasi Diktyou Etaireias','http://www.diktya.gr');
```

```
insert into needs values(1,'Networks');
insert into needs values(2,'Networks');
insert into needs values(3,'Local Area Networks');
insert into needs values(3,'Wide Area Networks');
insert into needs values(4,'Local Area Networks');
insert into needs values(5,'Databases');
insert into needs values(5,'SQL Server');
```

```
insert into evaluationresult values('arg',1,5,'Ta pige metria');
insert into evaluationresult values('manolop',2,9,'Ta pige arista');
insert into evaluationresult values('giannakoy',3,3,'Ta pige xalia');
insert into evaluationresult values('dimop',1,10,'Aristi eikona');
insert into evaluationresult values('delig',2,6,'Ta pige sxerika kala');
insert into evaluationresult values('dalak',3,7,'Ta pige kala');
```

```
insert into degree values('AEI','Panepistimio Patras');
insert into degree values('Master','Panepistimio Patras');
insert into degree values('PHD','Panepistimio Patras');
insert into degree values('AEI','Panepistimio Athinas');
```

insert into degree values('Master','Panepistimio Athinas');

insert into degree values('PHD','Panepistimio Athinas');

insert into has\_degree values('AEI','Panepistimio Athinas','arg',2015,6.5);

insert into has\_degree values('Master','Panepistimio Patras','arg',2018,6.5);

insert into has\_degree values('AEI','Panepistimio Athinas','manolop',2019,6);

insert into has\_degree values('PHD','Panepistimio Athinas','giannakoy',2019,8);

insert into has\_degree values('AEI','Panepistimio Athinas','dimop',2020,5);

insert into has\_degree values('Master','Panepistimio Patras','delig',2018,7.5);

insert into has\_degree values('Master','Panepistimio Patras','dalak',2017,8.5);

insert into has\_degree values('AEI','Panepistimio Patras','dalak',2015,5.5);

insert into languages values('arg','EN');

insert into languages values('manolop','GR');

insert into languages values('giannakoy','FR,GR');

insert into languages values('dimop','SP,GR');

insert into languages values('delig','EN,SP');

insert into languages values('dalak','EN,GR');

insert into requestsevaluation values('arg',1);

insert into requestsevaluation values('arg',2);

insert into requestsevaluation values('manolop',2);

insert into requestsevaluation values('manolop',3);

insert into requestsevaluation values('giannakoy',3);

insert into requestsevaluation values('giannakoy',4);

insert into requestsevaluation values('dimop',5);

```
insert into requestsevaluation values('dimop',6);
insert into requestsevaluation values('delig',1);
insert into requestsevaluation values('delig',6);
insert into requestsevaluation values('delig',3);
insert into requestsevaluation values('dalak',2);
insert into requestsevaluation values('dalak',4);
insert into requestsevaluation values('dalak',5);
insert into requestsevaluation values('arg',3);
insert into requestsevaluation values('giannakoy',11);
insert into requestsevaluation values('giannakoy',13);
insert into requestsevaluation values('giannakoy',23);
```

```
insert into ypoboli_aitiseon values(",6,'arg'");
insert into ypoboli_aitiseon values(",7,'manolop'");
insert into ypoboli_aitiseon values(",6,'arg'");
insert into ypoboli_aitiseon values(",7,'manolop'");
insert into ypoboli_aitiseon values(",8,'manolop'");
insert into ypoboli_aitiseon values(",11,'giannakoy'");
insert into ypoboli_aitiseon values(",13,'giannakoy'");
insert into ypoboli_aitiseon values(",23,'giannakoy'");
```

```
insert into evaluation_process values(1,1,3,'Metria Synenetyxi',3,3,'O dieythintis exei metria eikona',3,3,'Exei mono ptyxio kai den exei systatikes oute diakriseis',null,'karela','arg',null);
insert into evaluation_process values(2,2,3,'Kali Synenetyxi',2,2,'O dieythintis exei thetiki gnomi',2,1,'Exei Master kai 2 systatikes alla oxi diakriseis',1,'karela','arg',null);
insert into evaluation_process values(3,3,4,'Aristi Synenetyxi',3,4,'O dieythintis exei aristi gnomi',3,3,'Exei PHD ptyxio kai polles systatikes kai evresitexnia',1,'karela','manolop',null);
```

```
insert into evaluation_process values(4,1,4,'Poly Kali Synenetyxi',3,4,'O dieythintis ton proteinei gia tin thesi ayti',3,4,'Exei Master,PHD',null,'karela','manolop',null);
```

```
insert into evaluation_process values(5,3,2,null,3,null,'O dieythintis den ton proteinei gia tin thesi',3,4,'Exei Master,PHD',null,'karela','arg',null);
```

```
insert into evaluation_process values(6,1,1,'Elleipsis Synenetyxi',1,2,'O dieythintis den exei kalh eikona',1,2,'Exei Ptyxio',2,'karela','giannakoy',null);
```

```
insert into evaluation_process values(7,1,1,'Kaki Synenetyxi',1,2,'O dieythintis exei metria eikona',1,4,'Polla Ptyxia',3,'papan','giannakoy',null);
```

```
insert into evaluation_process values(8,2,2,'Metria Synenetyxi',1,2,'O dieythintis exei metria eikona',1,4,'Polla Ptyxia',2,'papan','giannakoy',null);
```

```
insert into evaluation_process values(9,3,2,'kali prosopikoi synenetyxi',3,3,'O dieythintis einai ikanopoihmeos me tin apodosi tou',4,3,'Exei 2 ptyxia',1,'papan','arg',null);
```

```
insert into evaluation_process values(10,3,3,'kali prosopikoi synenetyxi',3,3,'O dieythintis ton sistynei',4,3,'Exei kalo bathmo sto pytxio',2,'papan','arg',null);
```

```
-- -----  
drop procedure if exists proc1;
```

```
delimiter $
```

```
create procedure proc1(IN ename varchar(25),IN esurname varchar(35))
```

```
begin
```

```
    declare nf int;
```

```
    declare ar_aitisis int;
```

```
    declare jid int;
```

```
    declare empl varchar(12);
```

```
    declare eval varchar(12);
```

```
    declare xs text;
```

```
    declare xr text;
```

```
    declare xl text;
```

```
    declare unname varchar(25);
```

```
    declare usname varchar(35);
```

```

declare bcursor cursor for select distinct
evaluation_process.aa,evaluation_process.job_id,evaluation_process.username_emp,evaluation_process.username_eval,evaluation_process.xarakterismos_synenteyxis,xarakteris
mos_report,xarakterismos_loipon,user.name,user.surname

from user,employee,evaluation_process,evaluator,requestsevaluation
where user.username=employee.username and employee.username=requestsevaluation.empl_username and
employee.username=evaluation_process.username_emp and
evaluator.username=evaluation_process.username_eval and user.name=ename and user.surname=esurname;

declare continue handler for not found set nf=1;

set nf=0;

open bcursor;

repeat

    fetch bcursor into ar_aitisis,jid,empl,eval,xs,xr,xl,uname,usname;
    select xs,xr,xl;
    if (nf=0) then

        if (xs is not null) and (xr is not null) and (xl is not null) then
            select concat("Completed Evaluation from Evaluator: ",eval," for Employee: ",uname," ",usname," for job: ",jid);
        else
            select concat("Evaluation in Progress from Evaluator: ",eval," for Employee: ",uname," ",usname," for job: ",jid);
        end if;

    end if;

end if;

```

```
        until (nf=1)
            end repeat;
```

```
end$
```

```
delimiter ;
```

```
call proc1('Nikos','Argyriadis');
call proc1('Kostas','Manolopoulos');
call proc1('Maria','Giannakou');
```

```
-- -----
```

```
drop procedure if exists proc2;
```

```
delimiter $
```

```
create procedure proc2(IN jbdid int,IN evalusr varchar(12))
```

```
begin
```

```
    declare nf int;
```

```
    declare ar_aitisis int;
```

```
    declare jid int;
```

```
    declare empl varchar(12);
```

```
    declare eval varchar(12);
```

```
    declare bs int;
```

```
    declare br int;
```

```
    declare bl int;
```

```
    declare unname varchar(25);
```

```
    declare usname varchar(35);
```

```
    declare final_grade float(3,1);
```

```
    declare tp float(3,1);
```

```
    declare xs text;
```



```

declare bcursor cursor for select distinct
evaluation_process.aa,evaluation_process.job_id,evaluation_process.username_emp,evaluation_process.username_eval,evaluation_process.bathmos_synenteyxis,evaluation_pr
ocess.bathmos_report,evaluation_process.bathmos_loipon,evaluation_process.teliko_apotelesma,evaluation_process.sxolia_synenetyxis
from user,employee,evaluation_process,evaluator,requestsevaluation
where user.username=employee.username and employee.username=requestsevaluation.empl_username and
employee.username=evaluation_process.username_emp and
evaluation_process.username_eval=evalusr and evaluation_process.job_id=jbdid;

declare continue handler for not found set nf=1;

set nf=0;

open bcursor;

repeat

    fetch bcursor into ar_aitisis,jid,empl,eval,bs,br,bl,tp,xs;
    select ar_aitisis,jid,empl,eval,bs,br,bl,tp,xs;
    if (nf=0) then
        select bs,br,bl;
        if (bs is not null) and (br is not null) and (bl is not null) and (tp is null) then
            set final_grade=(bs+br+bl)/3;
            update evaluation_process set teliko_apotelesma=final_grade where evaluation_process.username_eval=evalusr and evaluation_process.job_id=jbdid
            and evaluation_process.username_emp=empl;
            insert into evaluationresult values(",empl,jid,final_grade,xs);
            select concat("Final Evaluation Grade from Evaluator: ",eval," for Employee with username: ",empl," for job: ",jid," is: ",final_grade);
        else

```

```
set final_grade=(bs+br+bl)/3;
```

```
if (bs is not null) and (br is not null) and (bl is not null) and (tp is not null) then
```

```
select concat("Evaluation from Evaluator: ",eval," for Employee with username: ",empl," for job: ",jid," has already grade ",final_grade);
```

```
end if;
```

```
end if;
```

```
end if;
```

```
until (nf=1)
```

```
end repeat;
```

```
end$
```

```
delimiter ;
```

```
call proc2(1,'karela');
```

```
call proc2(2,'karela');
```

```
call proc2(1,'papan');
```

```
call proc2(2,'papan');
```

```
call proc2(3,'papan');
```

```
-- -----
```

```
drop procedure if exists proc3;
```

```
delimiter $
```

```
create procedure proc3(IN jbdid int)
```

```
begin
```

```
declare nf int;
```

```
declare ar_aitisis int;
```

```
declare jid int;
```

```
declare empl varchar(12);
declare eval varchar(12);
declare bs int;
declare br int;
declare bl int;
declare uname varchar(25);
declare usname varchar(35);
declare final_grade float(3,1);
declare ta float(3,1);
declare counter int;
```

```
declare bcursor cursor for select distinct
```

```
evaluation_process.aa,evaluation_process.job_id,evaluation_process.username_emp,evaluation_process.username_eval,evaluation_process.teliko_apotelesma
from user,employee,evaluation_process,evaluator,requestsevaluation
where user.username=employee.username and employee.username=requestsevaluation.empl_username and
employee.username=evaluation_process.username_emp and evaluation_process.job_id=jbdid;
```

```
declare bcursor2 cursor for select distinct
```

```
evaluation_process.aa,evaluation_process.job_id,evaluation_process.username_emp,evaluation_process.username_eval,evaluation_process.teliko_apotelesma
from user,employee,evaluation_process,evaluator,requestsevaluation
where user.username=employee.username and employee.username=requestsevaluation.empl_username and
employee.username=evaluation_process.username_emp and
evaluation_process.job_id=jbdid
order by evaluation_process.teliko_apotelesma desc;
```

```
declare bcursor3 cursor for select distinct
```

```
evaluation_process.aa,evaluation_process.job_id,evaluation_process.username_emp,evaluation_process.username_eval,evaluation_process.teliko_apotelesma
```

```
from user,employee,evaluation_process,evaluator,requestsevaluation
where user.username=employee.username and employee.username=requestsevaluation.empl_username and
employee.username=evaluation_process.username_emp and evaluation_process.job_id=jbdid;
```

```
declare continue handler for not found set nf=1;
```

```
set nf=0;
```

```
set counter=0;
```

```
open bcursor;
```

```
repeat
```

```
    fetch bcursor into ar_aitisis,jid,empl,eval,ta;
```

```
    if (nf=0) then
```

```
        if (ta is null) then
```

```
            set counter=counter+1;
```

```
        end if;
```

```
    end if;
```

```
until (nf=1)
```

```
end repeat;
```

```
select 'Counter =',counter;
```

```
if (counter=0) then
```

```
    select 'ORISTIKOPOIHMENOI PINAKES';
```

```

set nf=0;
open bcursor2;

repeat
    fetch bcursor2 into ar_aitisis,jid,empl,eval,ta;

    if (nf=0) then
        if (ta is not null) then
            select ar_aitisis,jid,empl,eval,ta;
        end if;
    end if;

until (nf=1)
end repeat;
end if;

```

```

if (counter<>0) then
    select 'AXIOLOGHSH SE EXELIXI. EKKREMOUN AKOMA: ',counter;

    set nf=0;
    open bcursor3;

    repeat
        fetch bcursor3 into ar_aitisis,jid,empl,eval,ta;
        select ar_aitisis,jid,empl,eval,ta;
        select '-----';
    end repeat;
end if;

```

```

        if (nf=0) then
            if (ta is not null) then
                select ar_aitisis,jid,empl,eval,ta;
            end if;
        end if;

    until (nf=1)
    end repeat;

end if;

end$

delimiter ;

call proc3(1);
call proc3(2);
call proc3(3);
-- =====

drop procedure if exists proc3b;

delimiter $

create procedure proc3b(IN jbdid int,OUT ar_aitisis int,OUT jid int,OUT empl varchar(12),OUT eval varchar(12),OUT ta float(3,1))
begin
    declare nf int;

    -- declare ar_aitisis int;
    -- declare jid int;
    -- declare empl varchar(12);
    -- declare eval varchar(12);

```

```
declare bs int;
declare br int;
declare bl int;
declare uname varchar(25);
declare usname varchar(35);
declare final_grade float(3,1);
-- declare ta float(3,1);
declare counter int;
```

```
declare bcursor cursor for select distinct
evaluation_process.aa,evaluation_process.job_id,evaluation_process.username_emp,evaluation_process.username_eval,evaluation_process.teliko_apotelesma
from user,employee,evaluation_process,evaluator,requestsevaluation
where user.username=employee.username and employee.username=requestsevaluation.empl_username and
employee.username=evaluation_process.username_emp and evaluation_process.job_id=jbdid;
```

```
declare bcursor2 cursor for select distinct
evaluation_process.aa,evaluation_process.job_id,evaluation_process.username_emp,evaluation_process.username_eval,evaluation_process.teliko_apotelesma
from user,employee,evaluation_process,evaluator,requestsevaluation
where user.username=employee.username and employee.username=requestsevaluation.empl_username and
employee.username=evaluation_process.username_emp and
evaluation_process.job_id=jbdid
order by evaluation_process.teliko_apotelesma desc;
```

```
declare bcursor3 cursor for select distinct
evaluation_process.aa,evaluation_process.job_id,evaluation_process.username_emp,evaluation_process.username_eval,evaluation_process.teliko_apotelesma
from user,employee,evaluation_process,evaluator,requestsevaluation
where user.username=employee.username and employee.username=requestsevaluation.empl_username and
```

```
employee.username=evaluation_process.username_emp and evaluation_process.job_id=jbdid;
```

```
declare continue handler for not found set nf=1;
```

```
set nf=0;
```

```
set counter=0;
```

```
open bcursor;
```

```
repeat
```

```
    fetch bcursor into ar_aitisis,jid,empl,eval,ta;
```

```
    if (nf=0) then
```

```
        if (ta is null) then
```

```
            set counter=counter+1;
```

```
        end if;
```

```
    end if;
```

```
until (nf=1)
```

```
end repeat;
```

```
select 'Counter =',counter;
```

```
if (counter=0) then
```

```
    select 'ORISTIKOPOIHMENOI PINAKES';
```

```
    set nf=0;
```



```
open bcursor2;
```

```
repeat
```

```
    fetch bcursor2 into ar_aitisis,jid,empl,eval,ta;
```

```
    if (nf=0) then
```

```
        if (ta is not null) then
```

```
            select ar_aitisis,jid,empl,eval,ta;
```

```
        end if;
```

```
    end if;
```

```
until (nf=1)
```

```
end repeat;
```

```
end if;
```

```
if (counter<>0) then
```

```
    select 'AXIOLOGHSH SE EXELIXI. EKKREMOUN AKOMA: ',counter;
```

```
set nf=0;
```

```
open bcursor3;
```

```
repeat
```

```
    fetch bcursor3 into ar_aitisis,jid,empl,eval,ta;
```

```
    select ar_aitisis,jid,empl,eval,ta;
```

```
    select '-----';
```

```
    if (nf=0) then
```

```
        if (ta is not null) then
```

```

                select ar_aitisis,jid,empl,eval,ta;
            end if;
        end if;

        until (nf=1)
        end repeat;
    end if;

end$
delimiter ;

```

```

-- =====

drop trigger if exists jobtrig1;
delimiter $

create trigger jobtrig1 before insert on job
for each row
begin
    DECLARE jid int;
    SET jid = (SELECT job.id FROM job WHERE job.id = NEW.id);

    IF jid IS NOT NULL THEN
        insert into log values(NEW.evaluator,now(),'Failure','insert','job');
        SIGNAL SQLSTATE VALUE '45000' SET MESSAGE_TEXT = 'INSERT on JOB failed due to duplicate JOB ID';
    ELSE
        insert into log values(NEW.evaluator,now(),'Success','insert','job');
    END IF;
end;

```

```

        END IF;
end$
delimiter ;

-- test
insert into job values(8,'2020-7-30',2200,'Main Manager','Patra','xristop','2020-8-1','2020-8-2');
insert into job values(8,'2020-7-31',2200,'Second Main Manager','Patra','karela','2020-8-2','2020-8-3');
-- -----

drop trigger if exists jobtrig2;
delimiter $
create trigger jobtrig2 before update on job
for each row
begin
    IF new.id=old.id and new.start_date=old.start_date and new.salary=old.salary and new.position=old.position and new.edra=old.edra and new.evaluator=old.evaluator
        and new.announce_date=old.announce_date and new.submission_date=old.submission_date then
        insert into log values(NEW.evaluator,now(),'Failure','update','job');
            SIGNAL SQLSTATE VALUE '45000' SET MESSAGE_TEXT = 'UPDATE on JOB failed due to duplicate Elements';
        ELSE
            insert into log values(NEW.evaluator,now(),'Success','update','job');
        END IF;

    IF (old.id <> new.id) THEN
        insert into log values(NEW.evaluator,now(),'Failure','update','Job');
        SIGNAL SQLSTATE VALUE '45000' SET MESSAGE_TEXT = 'UPDATE on Jib failed due to EXISTING JOB ID';
    end if;
end$
delimiter ;

```

```

-- test

update job set start_date='2020-07-21',salary=2200.0,position='Main Manager',edra='Patra',evaluator='xristop',announce_date='2020-08-01 00:00:00',submission_date='2020-08-02' where id=1;

update job set id=1 where id=1;

-----

drop trigger if exists jobtrig3;
delimiter $
create trigger jobtrig3 before delete on job
for each row
begin
    IF (EXISTS(SELECT count(*) FROM job inner join requestsevaluation on id=job_id)) THEN
        insert into log values(OLD.evaluator,now(),'Failure','delete','job');
        SIGNAL SQLSTATE VALUE '45000' SET MESSAGE_TEXT = 'DELETE on JOB failed due to EXISTENT REQUESTS EVALUTION FOR THIS JOB';
    else
        insert into log values(old.evaluator,now(),'Success','delete','job');
    end if;

    IF (EXISTS(SELECT count(*) FROM job inner join evaluationresult on id=job_id)) THEN
        insert into log values(OLD.evaluator,now(),'Failure','delete','job');
        SIGNAL SQLSTATE VALUE '45000' SET MESSAGE_TEXT = 'DELETE on JOB failed due to EXISTENT EVALUTION RESULTS FOR THIS JOB';
    else
        insert into log values(old.evaluator,now(),'Success','delete','job');
    end if;
end$
delimiter ;

-- test

```

```
delete from job where id=4;
```

```
-----  
drop trigger if exists employeetrig1;
```

```
delimiter $
```

```
create trigger employeetrig1 before insert on employee
```

```
for each row
```

```
begin
```

```
    DECLARE jeuname varchar(12);
```

```
    SET jeuname = (SELECT employee.username FROM employee WHERE employee.username  = NEW.username);
```

```
    IF jeuname IS NOT NULL THEN
```

```
        insert into log values(NEW.username,now(),'Failure','insert','employee');
```

```
        SIGNAL SQLSTATE VALUE '45000' SET MESSAGE_TEXT = 'INSERT on Employee failed due to duplicate EMPLOYEE USERNAME';
```

```
    ELSE
```

```
        insert into log values(NEW.username,now(),'failure','insert','Empoyee');
```

```
    END IF;
```

```
end$
```

```
delimiter ;
```

```
--test
```

```
insert into employee values('basil','Einai kalos ypallilos','Polles systatikes','basil_certificates.pdf','basil_awards.pdf');
```

```
insert into employee values('dimop','Einai metrios ypallilos','Liges systatikes','dimop_certificates.pdf','dimop_awards.pdf');
```

```
-- -----  
drop trigger if exists employeetrig2;
```

```

delimiter $

create trigger employeetrig2 before update on employee
for each row
begin
    IF new.username=old.username and new.bio=old.bio and new.sistatikes=old.sistatikes and new.certificates=old.certificates and new.awards=old.awards then
        insert into log values(NEW.username,now(),'Failure','update','Employee');
        SIGNAL SQLSTATE VALUE '45000' SET MESSAGE_TEXT = 'UPDATE on Employee failed due to duplicate Elements';
    ELSE
        insert into log values(NEW.username,now(),'Success','update','Employee');
    END IF;
    IF (old.username <> new.username) THEN
        insert into log values(NEW.username,now(),'Failure','update','Employee');
        SIGNAL SQLSTATE VALUE '45000' SET MESSAGE_TEXT = 'UPDATE on Employee failed due to EXISTING USERNAME';
    end if;
end$

delimiter ;

```

```

-- test

update employee set sistatikes='None' where username='basil';
update employee set username='basilis' where username='basil';

```

-----

```

drop trigger if exists employeetrig3;

delimiter $

create trigger employeetrig3 before delete on employee
for each row
begin
    IF (EXISTS(SELECT count(*) FROM employee inner join requestsevaluation on username=empl_username)) THEN

```

```

insert into log values(OLD.username,now(),'Failure','delete','employee');
        SIGNAL SQLSTATE VALUE '45000' SET MESSAGE_TEXT = 'DELETION FROM EMPLOYEE failed due to EXISTING EVALUATION REQUESTS
FOR THIS EMPLOYEE';
    else
        insert into log values(old.username,now(),'Success','delete','employee');
    end if;
end$
delimiter ;

-- test
delete from employee where username='dalak';

-- -----

drop trigger if exists requestsevaluationrig1;
delimiter $
create trigger requestsevaluationrig1 before insert on requestsevaluation
for each row
begin
    DECLARE jeuname varchar(12);
    SET jeuname = (SELECT requestsevaluation.empl_username FROM requestsevaluation WHERE requestsevaluation.empl_username=NEW.empl_username and
requestsevaluation.job_id=new.job_id);

    IF jeuname IS NOT NULL THEN
        insert into log values(NEW.empl_username,now(),'Failure','insert','requestsevaluation');
        SIGNAL SQLSTATE VALUE '45000' SET MESSAGE_TEXT = 'INSERT on requestsevaluation failed due to duplicate EMPLOYEE USERNAME and JOB
ID';
    ELSE

```

```

        insert into log values(NEW.empl_username,now(),'failure','insert','requestsevaluation');

    END IF;

end$

delimiter ;

-- test

insert into requestsevaluation values('dimop',5);

-- -----

drop trigger if exists requestsevaluationrig2;

delimiter $

create trigger requestsevaluationrig2 before update on requestsevaluation
for each row
begin
    IF (old.empl_username = new.empl_username and old.job_id=new.job_id) THEN
        insert into log values(NEW.empl_username,now(),'Failure','Update','requestsevaluation');
        SIGNAL SQLSTATE VALUE '45000' SET MESSAGE_TEXT = 'UPDATE on requestsevaluation failed due to duplicate EMPLOYEE USERNAME and JOB
ID';
    ELSE
        insert into log values(NEW.empl_username,now(),'failure','update','requestsevaluation');

    END IF;

end$

delimiter ;

-- test

update requestsevaluation set empl_username='dalak',job_id=2 where empl_username='dalak' and job_id=2;

-- -----

```



```

drop trigger if exists requestsevaluationrig3;
delimiter $
create trigger requestsevaluationrig3 before delete on requestsevaluation
for each row
begin
    IF (EXISTS(SELECT count(*) FROM requestsevaluation inner join employee on username=empl_username group by empl_username)) THEN
        insert into log values(OLD.empl_username,now(),'Failure','delete','requestsevaluation');
        SIGNAL SQLSTATE VALUE '45000' SET MESSAGE_TEXT = 'DELETION FROM requestsevaluation failed due to EXISTING EMPLOYEE WHO
REQUESTS FOR EVALUATION';
    else
        insert into log values(old.empl_username,now(),'Success','delete','requestsevaluation');
    end if;
end$
delimiter ;

```

```
-- test
```

```
DELETE FROM requestsevaluation WHERE empl_username='dalak';
```

```
-- -----
```

```

drop trigger if exists companytrig;
delimiter $
create trigger companytrig before update on company
for each row
begin
    IF (old.AFM <> new.AFM) THEN
        SIGNAL SQLSTATE VALUE '45000' SET MESSAGE_TEXT = 'UPDATE on Compnay failed due to Company AFM cannot be changed';
    END IF;

```

```

        IF (old.DOY <> new.DOY) THEN
            SIGNAL SQLSTATE VALUE '45000' SET MESSAGE_TEXT = 'UPDATE on Compnay failed due to Company DOY cannot be changed';
        END IF;

        IF (old.name <> new.name) THEN
            SIGNAL SQLSTATE VALUE '45000' SET MESSAGE_TEXT = 'UPDATE on Compnay failed due to Company NAME cannot be changed';
        END IF;
end$
delimiter ;

-- test
update company set AFM='111111111' where AFM='123456123';
update company set DOY='C PATRAS'  where AFM='123456123';
update company set name='Kataskeyastiki OE PATRAS' where AFM='123456123';
update company set phone='2610324567' where AFM='123456123';
update company set street='Agias',num=100,city='Pirgos' where AFM='123456123';
-- -----

drop trigger if exists useradmintrig;
delimiter $
create trigger useradmintrig before update on user
for each row
begin
    IF (old.username <> new.username and old.username<>'admin') THEN
        SIGNAL SQLSTATE VALUE '45000' SET MESSAGE_TEXT = 'UPDATE on User failed due to User Username cannot be changed';
    END IF;

```

end\$

delimiter ;

-- test

update user set username='maria' where username='dalak';

update user set username='maria' where username='admin';

-- -----

create table tomeas(kt int not null,decription varchar(50),AFM char(9),primary key(kt), constraint wz foreign key(AFM) references company(AFM));

insert into tomeas values(1,'Kataskeyazei logistika kai emporika paketa','123456123');

insert into tomeas values(2,'Kataskeyazei paketa sxediasis gia mixanikous','123456123');