

بِسْمِ اللَّهِ الرَّحْمَنِ  
الرَّحِيمِ

# HR Management System



# Team work

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# Introduction

- \* **we chose this project** specially, because we know the importance of “Establishing Information System of Human Resources in Companies and Organizations”
- \* The Human Resources is considered the connecting ring between the Companies and public or people, at the past. And the current systems , the employees use the papers and huge files due to waste long time to access or retrieve some data about any **EMPLOYEE** or **WORKER** in the companies .This make it easy to lose much data and retrieve it became hardly.
- \* We turn our concern to transform this paper documentation to digital system serves everybody at any time with very easily .Our project is very important to us and all who work in this field .

# *HR Definition*

- \* Human resources is a term which many organization describe the combination of traditionally administrative personnel function with performance management, Employee Relations and resource planning



# *The objective of Human resources*

- \* **The objective of Human resources** is to maximize the return on investment from the organization's human capital and minimize financial risks .it is the responsibility of human resource manager to conduct these activities in an effective, legal, fair, and consistent manner.

# *The Main objectives in our project*

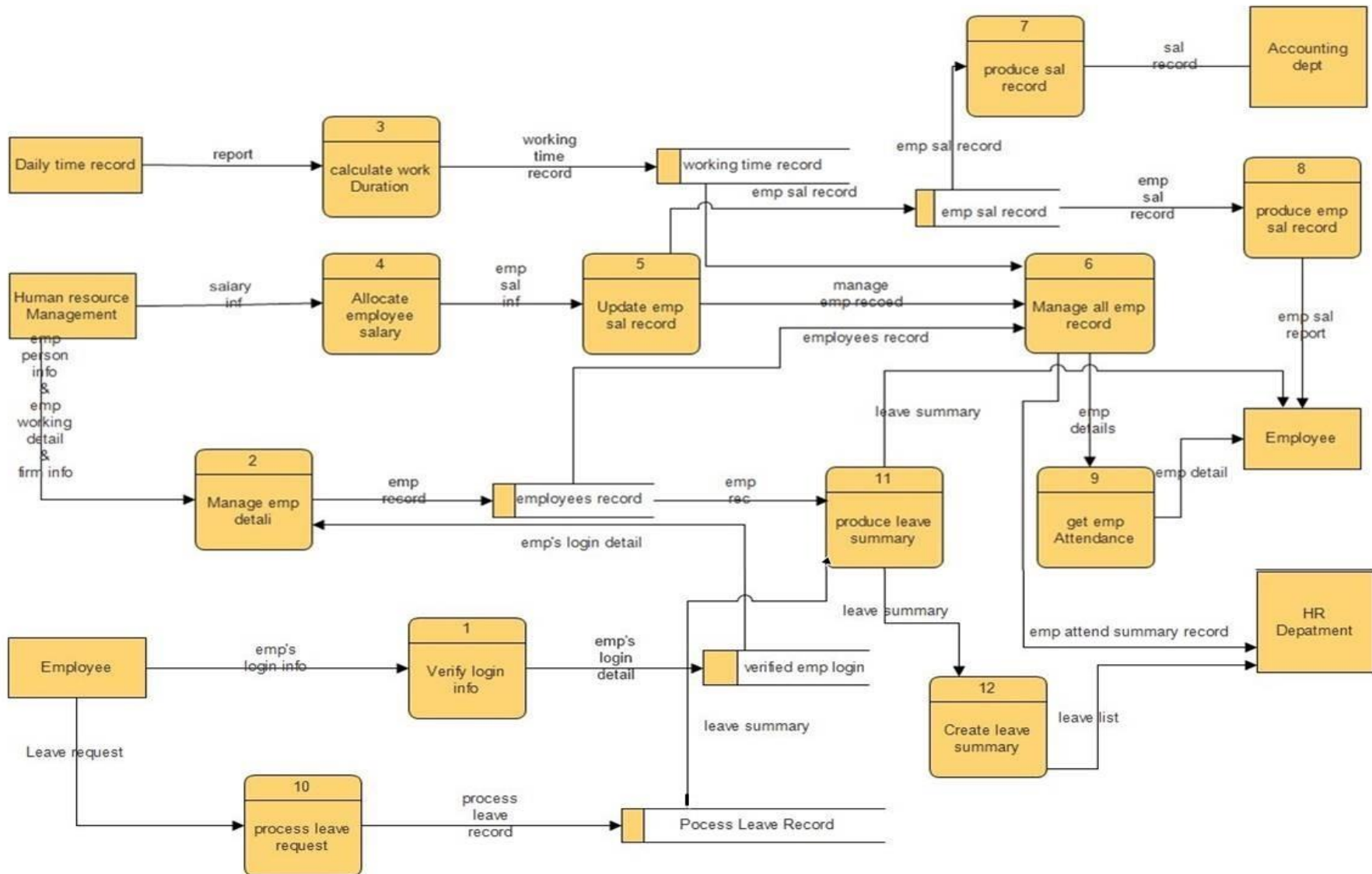
- This system achieves easy usability for any user or employee in the administration building
- Program that can insert, update, delete.
- Program that can find specific data “search”.
- Program that can generate periodically reports.
- Program that can achieve security.
- Program that can save time, money, and efforts without conflicts or errors.



# *The purpose of the project*

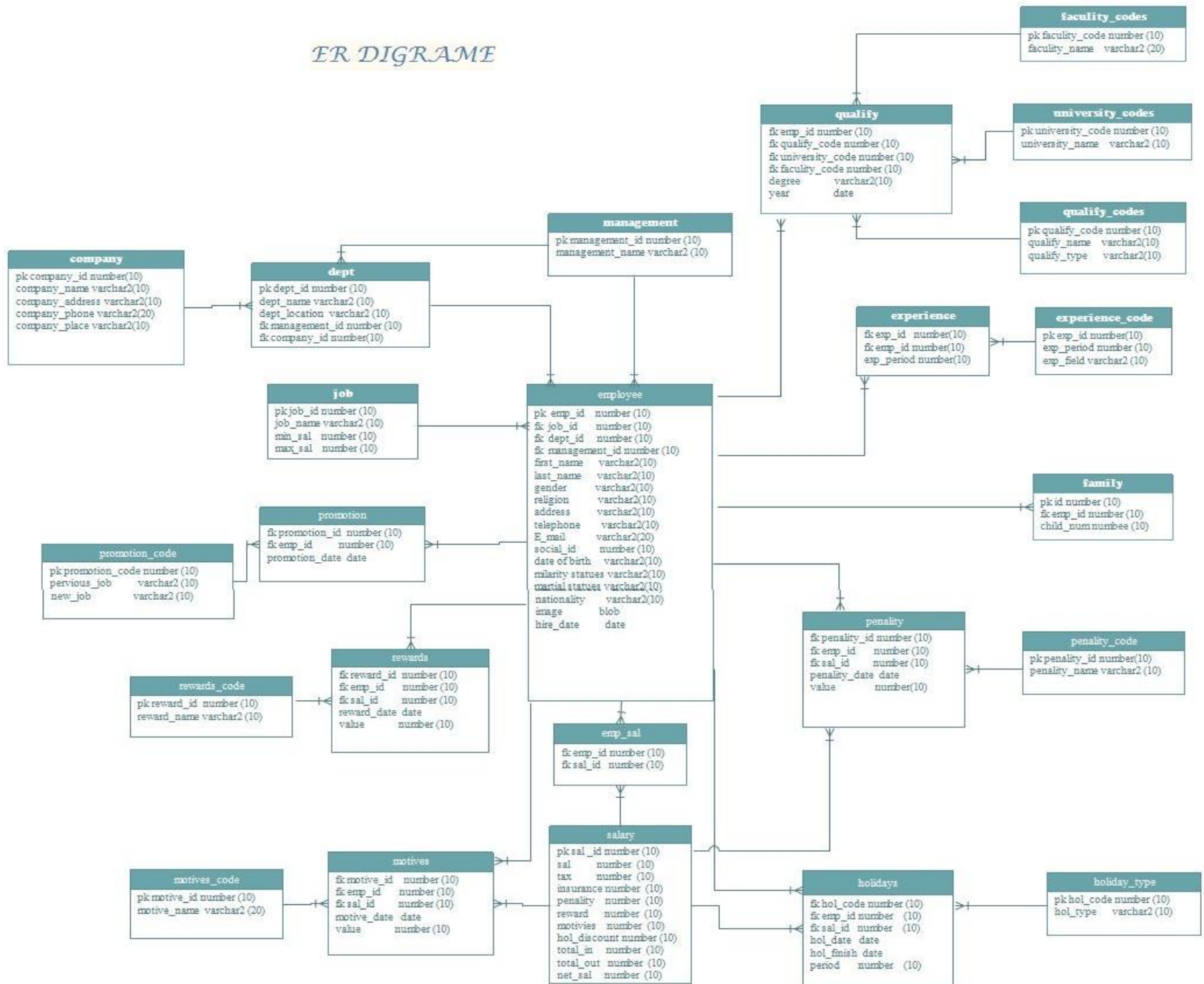
- \* Our project aims to replace manual system by automated system and facilitating the workflow ,also achieving and finding data without errors or delay taking account accuracy and efficiency , Because of employee s spend long times daily treating with the system ,so it should have a nice and simple interface to prevent them from boring and make the work easy.

# *Data Flow Diagram Of Our Project*



# *ER-Diagram*

# ER DIAGRAM



# *Normalization*

## Normalization

The process of decomposing unsatisfactory "bad" relations by breaking up their attributes into smaller relations

# Redundant Information in Tuples and Update Anomalies

**Big (and common) DB Problem:**

In a poorly designed DB information is stored redundantly

## **Consequences:**

- **Wastes storage**
- **Causes problems with update anomalies**
  - Insertion anomalies
  - Deletion anomalies
  - Modification anomalies

# EXAMPLE OF AN UPDATE ANOMALY

Consider the relation:

EMP\_dept(Emp\_id, dept\_id, F\_name, dept\_name)

## Update Anomaly:

- Changing the name of dept\_id 3 from “HR” to “IT” may cause this update to be made for all employees working on department 3



# EXAMPLE OF AN INSERT ANOMALY

Consider the relation:

EMP\_dept (Emp\_id, dept\_id, F\_name, dept\_name)

- \* **Insert Anomaly**

- Cannot insert a dept\_name unless an employee is assigned to it.

- ✉ **Conversely**

- Cannot insert an employee unless an he/she is assigned to a department

# EXAMPLE OF AN DELETE ANOMALY

Consider the relation:

**EMP\_dept (Emp\_id, dept\_id, F\_name, dept\_name)**

## ■ **Delete Anomaly:**

- When a department is deleted, it will result in deleting all the employees who work on that department.
- Alternately, if an employee is the sole employee on a department, deleting that employee would result in deleting the corresponding department.

# Solutions

A relation scheme R is in second normal form (2NF) when it is in 1NF and every nonprime attribute is fully dependent on every key of R.

Decomposing the relation EMP\_dept (Emp\_id , dept\_id , F\_name , dept\_name) into two subrelations

- \* First relation consists of attributes (Emp\_id , F\_name).
- \* Second relation consists of attributes (Dept\_id , dept\_name).

# Security

	USER_ID	SESSION_ID	HOST	IP_ADDRESS	LOGIN_TIME		LOGOUT_TIME	
1	SYSMAN	0	OSAMA	(null)	09:54:09.301000000	16/06/15	11:30:09.900000000	02/07/15
2	SYSMAN	0	OSAMA	(null)	09:56:15.340000000	16/06/15	11:30:09.900000000	02/07/15
3	HR_PROJECT	2487	osama	127.0.0.1	04:17:44.531000000	16/06/15	(null)	
4	SYSMAN	0	OSAMA	(null)	03:01:07.440000000	16/06/15	11:30:09.900000000	02/07/15
5	SYSMAN	0	OSAMA	(null)	04:00:31.146000000	16/06/15	11:30:09.900000000	02/07/15
6	HR_PROJECT	2511	osama	127.0.0.1	08:01:17.207000000	16/06/15	(null)	
7	SYSMAN	0	OSAMA	(null)	05:37:37.188000000	16/06/15	11:30:09.900000000	02/07/15
8	SYSMAN	0	OSAMA	(null)	05:38:42.201000000	16/06/15	11:30:09.900000000	02/07/15
9	SYSMAN	0	OSAMA	(null)	05:39:47.220000000	16/06/15	11:30:09.900000000	02/07/15
10	SYSMAN	0	OSAMA	(null)	05:40:52.249000000	16/06/15	11:30:09.900000000	02/07/15
11	SYSMAN	0	OSAMA	(null)	05:41:57.330000000	16/06/15	11:30:09.900000000	02/07/15
12	SYSMAN	0	OSAMA	(null)	05:43:02.428000000	16/06/15	11:30:09.900000000	02/07/15
13	SYSMAN	0	OSAMA	(null)	05:44:07.485000000	16/06/15	11:30:09.900000000	02/07/15
14	SYSMAN	0	OSAMA	(null)	05:45:12.545000000	16/06/15	11:30:09.900000000	02/07/15
15	SYSMAN	0	OSAMA	(null)	05:46:17.609000000	16/06/15	11:30:09.900000000	02/07/15
16	HR_PROJECT	2512	WORKGROUP\OSAMA	192.168.1.3	07:47:06.270000000	16/06/15	07:59:38.549000000	16/06/15
17	SYSMAN	0	OSAMA	(null)	05:47:22.640000000	16/06/15	11:30:09.900000000	02/07/15
18	SYSMAN	0	OSAMA	(null)	05:48:27.638000000	16/06/15	11:30:09.900000000	02/07/15
19	SYSMAN	0	OSAMA	(null)	05:49:32.657000000	16/06/15	11:30:09.900000000	02/07/15
20	SYSMAN	0	OSAMA	(null)	05:50:37.660000000	16/06/15	11:30:09.900000000	02/07/15

	USER_ID	DDL_DATE	EVENT_TYPE	OBJECT_TYPE	OWNER	OBJECT_NAME
40	SYS	12:45:06.023000000 20/06/15	ANALYZE	INDEX	SYS	I_OBJ#_INTCOL#
41	SYS	12:45:21.118000000 20/06/15	CREATE	TABLE	SYS	SYS_TEMP_0FD9D6600_387C00
42	SYS	12:46:05.348000000 20/06/15	CREATE	TABLE	SYS	ORA_TEMP_1_DS_223
43	SYS	12:46:12.004000000 20/06/15	TRUNCATE	TABLE	SYS	ORA_TEMP_1_DS_223
44	SYS	12:46:15.888000000 20/06/15	DROP	TABLE	SYS	ORA_TEMP_1_DS_223
45	SYS	12:46:17.927000000 20/06/15	CREATE	TABLE	SYS	ORA_TEMP_1_DS_224
46	SYS	12:46:19.510000000 20/06/15	TRUNCATE	TABLE	SYS	ORA_TEMP_1_DS_224
47	SYS	12:46:19.591000000 20/06/15	DROP	TABLE	SYS	ORA_TEMP_1_DS_224
48	SYS	12:46:27.019000000 20/06/15	CREATE	TABLE	SYS	ORA_TEMP_1_DS_225
49	SYS	12:46:28.283000000 20/06/15	TRUNCATE	TABLE	SYS	ORA_TEMP_1_DS_225
50	SYS	12:46:28.314000000 20/06/15	DROP	TABLE	SYS	ORA_TEMP_1_DS_225
51	SYS	12:46:31.436000000 20/06/15	CREATE	TABLE	SYS	ORA_TEMP_1_DS_226
52	SYS	12:46:35.427000000 20/06/15	TRUNCATE	TABLE	SYS	ORA_TEMP_1_DS_226
53	SYS	12:46:35.443000000 20/06/15	DROP	TABLE	SYS	ORA_TEMP_1_DS_226
54	SYS	12:46:40.900000000 20/06/15	ANALYZE	INDEX	SYS	SMON_SCN_TO_TIME_IDX





Emp\_Id

Password

LO

Forms X

رقم المستخدم غير موجود

OK

**Emp\_Id**

**Password**

Forms X

تجاوزت الخطأ ثلاث مرات يرجى المحاولة لاحقاً



OK



Emp\_Id

Password

المستخدم منتهية خدمته



OK



Emp\_Id

١٠٣

Password

••••••••

Forms

البرنامج تحت الصيانه والتطوير ... سنعود قريباً

OK



Emp\_Id

102

Password

••••••••

Forms

×

المستخدم مقفل على النظام



OK

LO

# *Forms*

**Emp\_Id**

**Password**

**LOGIN**

**EXIT**





Emp\_Id

First\_Name

Job\_Id

Last\_Name

Dept\_Id

Address

Management\_Id

Nationality

Social\_Id

Religion

E-Mail

Telephone

Military\_Status

Hire\_Date

Gender

Male ☒Female ☐

Date\_Of\_Birth

Marital\_Status

ADD NEW EMP

Execute

DELETE

SAVE

Exit

Emp\_ID

Emp\_Name

SEARCH

RESET

CODES

SOCIAL

INFORMATION

Hire Date	Date Of Birth	E Mail	Telephone	Address	Gender	Last Name	First Name
٢٠١٥/٠٣/١٢	١٩٩٣/٧/٢٦	M@YAHOO	.١١٢٣	الزقازيق	ذكر	مرسي	اسامه
٢٠١٥/٠٦/٠٦	٢٠١١/١١/١١	F@YAHOO	.٢٢٥	ههيا	ذكر	معنصم	احمد
٢٠١٥/٠٩/٠٤	١٩٩٣/٦/٣٠	E@YAHOO	٢٢٠٠٢	طبيه	ذكر	متولي	محمد



First Name

Emp Id

<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

Show Sal

Add New Salary

Execute

Save

Exit

Salary

Penalty

Rewards

Elawa Egtmaia

Badal Tafrogh

Badal Adwa

Comm

<input type="text"/>
<input type="text"/>
<input type="text"/>

<input type="text"/>
<input type="text"/>
<input type="text"/>

<input type="text"/>
<input type="text"/>
<input type="text"/>

<input type="text"/>
<input type="text"/>
<input type="text"/>

Motives

Reward

Sal Date

<input type="text"/>
<input type="text"/>
<input type="text"/>

<input type="text"/>
<input type="text"/>
<input type="text"/>

<input type="text"/>
<input type="text"/>
<input type="text"/>

Hide Sal

First Name

Emp Id

اسامه	١
احمد	٢
محمد	٣

Show Sal

Add New Salary

Execute

Save

Exit

Salary

Penalty

Rewards

Tax

٢١٠

Damgha

١٠٠

Penalty

٢٠٠

Insurance

٩٠

First Name	Emp Id
اسامه	١
احمد	٢
محمد	٣

Show Sal

Add New Salary

Execute

Save

Exit

Salary

Penalty

Rewards

Total Out	Total In	Sal Id	Emp Id
٦٠٠	٤٠٠	١	١

Net Sal

Sal

٣٤٠

٣٠٠

Cal

# *Report*

# Employee Search

Hire Date	Marital	Nationality	Military	Date_of_Birth	Social Id	E-Mail	Telephone	Address	Religion	Gender	Last Name	First Name	Management Id	Dept Id	Job Id	Emp Id
١٣/٠٣/١٥	اغترب	مصري	اقتفاء نهائى	٢٦/٧/١٩٩٣	٢٤٢٤٥	IM@YAHOO.COM	٠١١٢٣	الزفازريق	مسلم	نكر	مرسى	اسامه	١	١	١	١
٠٢/٠٦/١٥	متزوج/متزوجه	مصري	اقتفاء نهائى	١١/١١/٢٠١١	٦٥٤٨٢	F@YAHOO.COM	٠٢٢٥	ههيا	مسلم	نكر	معتصم	احمد	٢	٢	٢	٢
٠٤/٠٩/١٥	اغترب	مصري	اقتفاء نهائى	٣٠/٦/١٩٩٣	١٨٩٤٧	E@YAHOO.COM	٢٢٠٠٢	طليه	مسلم	نكر	منولى	محمد	٣	٣	٣	٣
١٥/٠٢/١٥	اغترب	مصري	اقتفاء مؤقت	١٠/٩/١٩٩٣	٢٨٤٦٣	m@hotmail.com	٠٩١٨٣١٣	كفر يوسف	مسلم	نكر	المحمدى	احمد	٢	٢	٢	٤
١١/٠٩/١١	LIST18	مصريه		٣/٥/١٩٩٣	٣٤٩٦١	Sandy@gmail.com	٠١٢٦٣٥٤٥	مدينه نصر	مسلم	انثى	فارس	ساندى	٣	٣	٢	٦
١٩/٠٤/١٥	اغترب	مصري	اقتفاء نهائى	٣/١٢/١٩٩٢	٧٢١٩٥	A@hotmail.com	٢٠١٥٦٢١	بلبيس	مسلم	نكر	اسرف	محمد	١	٢	٣	٥

**Enter Company Id**

Company\_id:

## Company Search

Company Place	Company Phone	Company Name	Company Id
Zagazig	.١٢٣٦.٥٤٧٨	MMOAA	١

**Enter Department Name**

**Department\_Name:**

Company Id	Management Id	Dept Location	Dept Name	Dept Id
1	3	Mansoura	Sales	4



# Salary Search

Sal Date	Penalty	Comm	Insurance	Tax	Sal	Damgha	Motives	Reward	Elawa	Egtmaia	Badal	Tafrogh	Badal	Adwa	Net Sal	Total Out	Total In	Sal Id	Emp Id
11/07/10	200	130	90	210	3000	100	190	100	200		120		220		3410	700	4010	1	1
12/05/10	180		96	224	3200	160	240	200	100		90		200		3420	770	4080	2	2
02/11/10	210		90	210	3000	90	320	300	140		210		120		3490	700	4090	3	3
23/09/10	170	170	87	203	2900	130	240	170	160		190		230		3470	590	4060	4	4
03/09/10	170	210	87	203	2900	80	170	170	300		200		230		3740	540	4180	3	6
10/02/10	100	140	93	217	3100	230	180	130	210		200		170		3440	790	4130	0	0
															20880				:Total



*Thank you for listening*