

# Mohamed Ali Bayoumi

## Lab-2

1. Insert your personal data to the employee table as a new employee in department number 30, SSN = 102672, Superssn = 112233.

```
1 • use new;
2 • select * from employee;
3 • insert into employee values(102672,'Mohamed','Ali',20001202,'Zagazig,Sharkia','M','4000',112233,30);
```

2. Insert another employee with personal data your friend as new employee in department number 30, SSN = 102660, but don't enter any value for salary or manager number to him.

```
1 • use new;
2 • select * from employee;
3 • insert into employee(SSN, Fname, Lname, Bdate, Address, Gender, Dno)
4 • values(102660,'Hady','Hisham',20011101,'Banayous,Zagzig,Sharkia','M',30);
```

SSN	Fname	Lname	Bdate	Address	Gender	Salary	SuperSSN	DNO
102660	Hady	Hisham	2001-11-01	Banayous,Zagzig,Sharkia	M	NULL	NULL	30
102672	Mohamed	Ali	2000-12-02	Zagazig,Sharkia	M	4000	112233	10

3. In the department table insert new department called "DEPT IT" , with id 100, employee with SSN = 112233 as a manager for this department. The start date for this manager is '1-11-2006'

Dname	Dnum	MGRSSN	MGRSatrtDate
DP1	10	223344	2005-01-01
DP2	20	968574	2006-03-01
DP3	30	512463	2006-06-01
DEPT IT	100	112233	2006-11-01
NULL	NULL	NULL	NULL

departments 8 x

Apply Revert

4. Do what is required if you know that : Mrs.Noha Mohamed(SSN=968574) moved to be the manager of the new department (id = 100), and they give you(use your SSN from question1) her position (Dept. 20 manager)
- First try to update her record in the department table
  - Update your record to be department 20 manager.
  - Update your friend data(entered in question2) to be in your teamwork (supervised by you)

Limit to 1000 rows

```

3 • select * from departments;
4 • update departments
5   set MGRSSN=102672
6   where Dnum=20;
7 • update departments
8   set MGRSSN=968574
9   where Dnum=100;

```

Result Grid

Dname	Dnum	MGRSSN	MGRSattrDate
DP1	10	223344	2005-01-01
DP2	20	102672	2006-03-01
DP3	30	512463	2006-06-01
DEPT IT	100	968574	2006-11-01
* NULL	NULL	NULL	NULL

Form Editor

```

1 • use new;
2 • select * from employee;
3 • select * from departments;
4 • update employee
5   set SuperSSN=102672
6   where SuperSSN=223344;
7

```

Result Grid

SSN	Fname	Lname	Bdate	Address	Gender	Salary	SuperSSN	DNO
102660	Hady	Hisham	2001-11-01	Banayous,Zagzig,Sharkia	M	NULL	102672	30
102672	Mohamed	Ali	2000-12-02	Zagazig,Sharkia	M	4000	112233	10
112233	Ahmed	Ali	1965-01-01	15 Ali fahmy St.Giza	M	1300	102672	10
123456	Hanaa	Sobhy	1973-03-18	38 Abdel Khalik Tharwat St. Downtown.Cairo	F	800	102672	10
223344	Kamel	Mohamed	1970-10-15	38 Mohy el dien abo el Ezz St.Cairo	M	1800	321654	10
321654	Amr	Omran	1963-09-14	44 Hilopolis.Cairo	M	2500	NULL	NULL
512463	Edward	Hanna	1972-08-19	18 Abaas El Zakaad St. Nasr City.Cairo	M	1500	321654	30

Form Editor

employee 23 x

Apply Revert

5. Unfortunately the company ended the contract with Mr. Kamel Mohamed (SSN=223344) so try to delete his data from your database in case you know that you will be temporarily in his position.

Hint: (Check if Mr. Kamel has dependents, works as a department manager, supervises any employees or works in any projects and handle these cases).

The screenshot displays two SQL query windows from a database management tool. The top window shows a query to update the 'departments' table, and the bottom window shows a query to update the 'works\_for' table. Both queries are followed by a 'Result Grid' showing the data after the update.

**Top Window: departments**

```
1 • use new;
2 • select * from employee;
3 • select * from departments;
4 • update departments
5   set MGRSSN=102672
6   where MGRSSN=223344;
7 • delete from employee
```

Result Grid:

Dname	Dnum	MGRSSN	MGRSstrtDate
DP1	10	102672	2005-01-01
DP2	20	102672	2006-03-01
DP3	30	512463	2006-06-01
DEPT IT	100	968574	2006-11-01
NULL	NULL	NULL	NULL

departments 28 x

**Bottom Window: works\_for**

```
1 • use new;
2 • select * from works_for;
3 • update works_for
4   set Essn=102672
5   where Essn=223344;
6 • delete from employee
7   where SSN=223344;
```

Result Grid:

Essn	Pno	hours
102672	100	10
102672	200	10
102672	300	10
102672	500	10
112233	100	40
512463	500	10
512463	600	25

works\_for 31 x

Limit to 1000 rows

```

1 • use new;
2 • select * from dependent;
3 • update dependent
4   set ESSN=102672
5   where ESSN=223344;
6 • delete from employee
7   where SSN=223344;

```

Result Grid

ESSN	Dependent_name	Sex	BDate
102672	Ahmed Kamel Shawki	M	1998-03-27 00:00:00
102672	Mona Adel Mohamed	F	1975-04-25 00:00:00
112233	Hala Saied Ali	F	1970-10-18 00:00:00
321654	Omar Amr Omran	M	1993-03-30 00:00:00
321654	Ramy Amr Omran	M	1990-01-26 00:00:00
321654	Sanaa Gawish	F	1973-05-16 00:00:00
512463	Nora Ghaly	F	1976-06-22 00:00:00

dependent 38 x

Apply Revert

Limit to 1000 rows

```

1 • use new;
2 • select * from employee;
3 • delete from employee
4   where SSN=223344;
5

```

Result Grid

SSN	Fname	Lname	Bdate	Address	Gender	Salary	SuperSSN	DNO
102660	Hady	Hisham	2001-11-01	Banayous,Zagzig,Sharkia	M	NULL	102672	30
102672	Mohamed	Ali	2000-12-02	Zagazig,Sharkia	M	4000	112233	10
112233	Ahmed	Ali	1965-01-01	15 Ali fahmy St.Giza	M	1300	102672	10
123456	Hanaa	Sobhy	1973-03-18	38 Abdel Khalik Tharwat St. Downtown.Cairo	F	800	102672	10
321654	Amr	Omran	1963-09-14	44 Hilopolis.Cairo	M	2500	NULL	NULL
512463	Edward	Hanna	1972-08-19	18 Abaas El 3akaad St. Nasr City.Cairo	M	1500	321654	30
521634	Maged	Raouf	1980-06-04	18 Kholosi st.Shobra.Cairo	M	1000	968574	30

employee 39 v

Apply Revert

6. And your salary has been upgraded by 20 present of its last value.

Limit to 1000 rows

```
1 • use new;
2 • select * from employee;
3 • update employee
4   set salary=salary+.2*salary
5   where SSN=102672;
6
7
```

Result Grid

SSN	Fname	Lname	Bdate	Address	Gender	Salary	SuperSSN	DNO
102660	Hady	Hisham	2001-11-01	Banayous,Zagzig,Sharkia	M	NULL	102672	30
102672	Mohamed	Ali	2000-12-02	Zagazig,Sharkia	M	4800	112233	10
112233	Ahmed	Ali	1965-01-01	15 Ali fahmy St.Giza	M	1300	102672	10
123456	Hanaa	Sobhy	1973-03-18	38 Abdel Khalik Tharwat St. Downtown.Cairo	F	800	102672	10
321654	Amr	Omran	1963-09-14	44 Hilopolis.Cairo	M	2500	NULL	NULL
512463	Edward	Hanna	1972-08-19	18 Abaas El Sakaad St. Nasr City.Cairo	M	1500	321654	30
521634	Maged	Raof	1980-06-04	18 Kholosi st.Shobra.Cairo	M	1000	968574	30

employee 40 x

Apply Revert

1. Display all the employees Data.

```
2 • select * from employee;
3
4
```

Result Grid

SSN	Fname	Lname	Bdate	Address	Gender	Salary	SuperSSN	DNO
102660	Hady	Hisham	2001-11-01	Banayous,Zagzig,Sharkia	M	NULL	102672	30
102672	Mohamed	Ali	2000-12-02	Zagazig,Sharkia	M	4800	112233	10
112233	Ahmed	Ali	1965-01-01	15 Ali fahmy St.Giza	M	1300	102672	10
123456	Hanaa	Sobhy	1973-03-18	38 Abdel Khalik Tharwat St. Downtown.Cairo	F	800	102672	10
321654	Amr	Omran	1963-09-14	44 Hilopolis.Cairo	M	2500	NULL	NULL
512463	Edward	Hanna	1972-08-19	18 Abaas El Sakaad St. Nasr City.Cairo	M	1500	321654	30
521634	Maged	Raof	1980-06-04	18 Kholosi st.Shobra.Cairo	M	1000	968574	30

employee 40 x

Apply



## 2. Display the employee First name, last name, Salary and Department number.

```
1 • use new;
2 • select Fname,Lname,Salary,DNO from employee;
3
4
```

Fname	Lname	Salary	DNO
Hady	Hisham	NULL	30
Mohamed	Ali	4800	10
Ahmed	Ali	1300	10
Hanaa	Sobhy	800	10
Amr	Omran	2500	NULL
Edward	Hanna	1500	30
Maged	Raoof	1000	30

employee 41 x Read Only

## 3. Display all the projects names, locations and the department which is responsible about it.

```
1 • use new;
2 • select Pname,Plocation,Dnum from project;
3
4
```

Pname	Plocation	Dnum
AL Solimaniah	Cairo_Alex Road	10
Al Rabwah	6th of October City	10
Al Rawdah	Zaied City	10
Al Rowad	Cairo_Faiyom Road	20
Al Rehab	Nasr City	30
Pitcho american	Maady	30
Ebad El Rahman	Ring Road	20

project 42 x Read Only

4. If you know that the company policy is to pay an annual commission for each employee with specific percent equals 10% of his/her annual salary .Display each employee full name and his annual commission in an ANNUAL COMM column (alias).

```
1 • use new;
2 • select concat(Fname, ' ', Lname) as 'Name' , salary*.1 as 'ANNUAL COMM' from employee;
3
4
```

Result Grid

	Name	ANNUAL COMM
▶	Hady Hisham	NULL
	Mohamed Ali	480.0
	Ahmed Ali	130.0
	Hanaa Sobhy	80.0
	Amr Omran	250.0
	Edward Hanna	150.0

Result 44 x

Read Only

5. Display the employees Id, name who earns more than 1000 LE monthly.

```
1 • use new;
2 • select SSN,Fname,salary from employee where salary>1000;
3
4
```

Limit to 1000 rows

Result Grid

	SSN	Fname	salary
▶	102672	Mohamed	4800
	112233	Ahmed	1300
	321654	Amr	2500
	512463	Edward	1500
	968574	Noha	1600
*	NULL	NULL	NULL

employee 46 x

Apply Revert

5. Display the employees Id, name who earns more than 1000 LE monthly.
6. Display the employees Id, name who earns more than 10000 LE annually.

```
1 • use new;
2 • select SSN,Fname,salary*12 as 'Annual Salary' from employee where salary*12>10000;
3
4
```

Result Grid

Filter Rows:  Export: Wrap Cell Content:

	SSN	Fname	Annual Salary
▶	102672	Mohamed	57600
	112233	Ahmed	15600
	321654	Amr	30000
	512463	Edward	18000
	521634	Maged	12000
	968574	Noha	19200

Result 47 x Read Only

## 7. Display the names and salaries of the female employees

```
1 • use new;
2 • select Fname,salary from employee where gender='F';
3
4
```

Result Grid

Filter Rows:  Export: Wrap Cell Content:

	Fname	salary
▶	Hanaa	800
	Mariam	750
	Noha	1600

employee 48 x Read Only



8. Display each department id, name which managed by a manager with id equals 968574.

The screenshot shows a database query tool interface. The top toolbar includes icons for file operations, a 'Limit to 1000 rows' dropdown, and search/execution icons. The SQL editor contains the following code:

```
1 • use new;  
2 • select Dnum from departments where MGRSSN='968574';  
3  
4
```

Below the editor is the 'Result Grid' section. It includes a 'Filter Rows' input field, an 'Edit' button, and 'Export/Import' and 'Wrap Cell Content' options. The result grid shows a single column 'Dnum' with one row containing the value '100'. A 'Form Editor' button is visible on the right. At the bottom, a tab labeled 'departments 49' is active, with 'Apply' and 'Revert' buttons.

Dnum
100

9. Display the ids, names and locations of the projects which controlled with department 10.

The screenshot shows the same database query tool interface. The SQL editor contains the following code:

```
1 • use new;  
2 • select Pnumber,Pname,Plocation from project where Dnum=10;  
3  
4
```

The 'Result Grid' section shows a table with three columns: 'Pnumber', 'Pname', and 'Plocation'. It contains three rows of data. A 'Form Editor' button is visible on the right. At the bottom, a tab labeled 'project 50' is active, with 'Apply' and 'Revert' buttons.

Pnumber	Pname	Plocation
100	AL Solimaniah	Cairo_Alex Road
200	Al Rabwah	6th of October City
300	Al Rawdah	Zaied City