



# SQL TASK

**Aya Sabry**

**Submitted to:  
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# Data Manipulating Language

1-

```
SELECT * FROM employee;
```

```
INSERT INTO employee (fname,lname,ssn,bdate,address,sex,salary,Superssn,dno)
```

```
VALUES ('Aya', 'Sabry',102672,'1998-01-01 00:00:00+02','43 Dokki St. El Mohandiseen  
.Giza','F',1000,112233,30);
```

Aya	Sabry	102672	1998-01-01 00:00:00+02	43 Dpkki St. El Mohandiseen .Giza	F	1000	112233	30
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2-

```
INSERT INTO employee (fname,lname,ssn,bdate,address,sex,dno)
```

```
VALUES ('Alaa', 'Khaled',102660,'1999-01-01 00:00:00+02','45 Orabi St. El Mohandiseen  
.Giza','F',30);
```

Alaa	Khaled	102660	1999-01-01 00:00:00+02	45 Orabi St. El Mohandiseen .Giza	F	[null]	[null]	30
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### 3-

**INSERT INTO departments (dname,dnum,mgrssn,"MGRStart Date") VALUES ('DEPT IT', 100,112233,'1-11-2006');**

	dname character varying (50)	dnum [PK] integer	mgrssn integer	MGRStart Date date
1	DP1	10	223344	2005-01-01
2	DP2	20	968574	2006-01-03
3	DP3	30	512463	2006-01-06
4	DEPT IT	100	112233	2006-01-11

### 4-

**4.1 UPDATE departments SET mgrSSN = 968574 WHERE dnum=100;**

	dname character varying (50)	dnum [PK] integer	mgrssn integer	MGRStart Date date
1	DP1	10	223344	2005-01-01
2	DP2	20	968574	2006-01-03
3	DP3	30	512463	2006-01-06
4	DEPT IT	100	968574	2006-01-11

**4.2 UPDATE departments SET mgrSSN = 102672 WHERE dnum=20;**

	dname character varying (50)	dnum [PK] integer	mgrssn integer	MGRStart Date date
1	DP1	10	223344	2005-01-01
2	DP3	30	512463	2006-01-06
3	DEPT IT	100	968574	2006-01-11
4	DP2	20	102672	2006-01-03

**4.3 UPDATE employee SET superssn = 102672 WHERE ssn=102660;**

id	fname	lname	ssn	hiredate	address	sex	superssn	superssn
10	Alaa	Khaled	102660	1999-01-01 00:00:00+02	45 Orabi St. El Mohandiseen .Giza	F	[null]	102672
								30

## 5-

**SELECT \* FROM employee;**

**SELECT \* FROM departments;**

**SELECT \* FROM dependent;**

**SELECT \* FROM works\_for;**

**SELECT \* FROM project;**

**UPDATE employee SET superssn = 102672 WHERE superssn = 223344 ;**

**UPDATE departments SET mgrSSN = 102672 WHERE mgrSSN=223344;**

**SELECT \* FROM employee;**

**SELECT \* FROM departments;**

**DELETE FROM works\_for WHERE essn=223344;**

**DELETE FROM dependent WHERE essn=223344;**

**DELETE FROM employee WHERE ssn=223344;**

**SELECT \* FROM employee;**

	fname character var	lname character varying (50)	ssn [PK] integer	bdate timestamp with time zone	address character varying (50)	sex character varying (50)	salary integer	superssn integer	dno integer
1	Amr	Omran	321654	1963-09-14 00:00:00+03	44 Hilopolis,Cairo	M	2500	[null]	[null]
2	Edward	Hanna	512463	1972-08-19 00:00:00+03	18 Abaas El Sakaad St. Nasr City,Cairo	M	1500	321654	30
3	Maged	Raouf	521634	1980-06-04 00:00:00+03	18 Kholosi st.Shobra,Cairo	M	1000	968574	30
4	Mariam	Adel	669955	1982-12-06 00:00:00+02	269 El-Haram st. Giza	F	750	512463	20
5	Noha	Mohamed	968574	1975-01-02 00:00:00+02	55 Orabi St. El Mohandiseen ,Cairo	F	1600	321654	20
6	Aya	Sabry	102672	1998-01-01 00:00:00+02	43 Dokki St. El Mohandiseen .Giza	F	1000	112233	30
7	Alaa	Khaled	102660	1999-01-01 00:00:00+02	45 Orabi St. El Mohandiseen .Giza	F	[null]	102672	30
8	Ahmed	Ali	112233	1965-01-01 00:00:00+02	15 Ali fahmy St.Giza	M	1300	102672	10
9	Hanaa	Sobhy	123456	1973-03-18 00:00:00+02	38 Abdel Khalik Tharwat St. Downtown,Cairo	F	800	102672	10

## 6-

**UPDATE employee SET salary=salary+(salary\*0.2) WHERE ssn=102672;**

fname character varying (50)	lname character varying (50)	ssn [PK] integer	bdate timestamp with time zone	address character varying (50)	sex character varying (50)	salary integer	superssn integer	dno integer
Amr	Omran	321654	1963-09-14 00:00:00+03	44 Hilopolis.Cairo	M	2500	[null]	[null]
Edward	Hanna	512463	1972-08-19 00:00:00+03	18 Abaas El Sakaad St. Nasr City.Cairo	M	1500	321654	30
Maged	Raouf	521634	1980-06-04 00:00:00+03	18 Kholosi st.Shobra.Cairo	M	1000	968574	30
Mariam	Adel	669955	1982-12-06 00:00:00+02	269 El-Haram st. Giza	F	750	512463	20
Noha	Mohamed	968574	1975-01-02 00:00:00+02	55 Orabi St. El Mohandiseen .Cairo	F	1600	321654	20
Alaa	Khaled	102660	1999-01-01 00:00:00+02	45 Orabi St. El Mohandiseen .Giza	F	[null]	102672	30
Ahmed	Ali	112233	1965-01-01 00:00:00+02	15 Ali fahmy St.Giza	M	1300	102672	10
Hanaa	Sobhy	123456	1973-03-18 00:00:00+02	38 Abdel Khalik Tharwat St. Downtown.Cairo	F	800	102672	10
Aya	Sabry	102672	1998-01-01 00:00:00+02	43 Dpkki St. El Mohandiseen .Giza	F	1200	112233	30

# Task 2

1-

**SELECT \* FROM employee;**

fname character var	lname character varying (50)	ssn [PK] integer	bdate timestamp with time zone	address character varying (50)	sex character varying (50)	salary integer	superssn integer	dno integer
Amr	Omran	321654	1963-09-14 00:00:00+03	44 Hilopolis.Cairo	M	2500	[null]	[null]
Edward	Hanna	512463	1972-08-19 00:00:00+03	18 Abaas El 3akaad St. Nasr City.Cairo	M	1500	321654	30
Maged	Raof	521634	1980-06-04 00:00:00+03	18 Kholosi st.Shobra.Cairo	M	1000	968574	30
Mariam	Adel	669955	1982-12-06 00:00:00+02	269 El-Haram st. Giza	F	750	512463	20
Noha	Mohamed	968574	1975-01-02 00:00:00+02	55 Orabi St. El Mohandiseen .Cairo	F	1600	321654	20
Alaa	Khaled	102660	1999-01-01 00:00:00+02	45 Orabi St. El Mohandiseen .Giza	F	[null]	102672	30
Ahmed	Ali	112233	1965-01-01 00:00:00+02	15 Ali fahmy St.Giza	M	1300	102672	10
Hanaa	Sobhy	123456	1973-03-18 00:00:00+02	38 Abdel Khalik Tharwat St. Downtown.Cairo	F	800	102672	10
Aya	Sabry	102672	1998-01-01 00:00:00+02	43 Dokki St. El Mohandiseen .Giza	F	1200	112233	30

2-

**SELECT fname, lname, salary, dno FROM employee;**

	fname character varying (50)	lname character varying (50)	salary integer	dno integer
1	Amr	Omran	2500	[null]
2	Edward	Hanna	1500	30
3	Maged	Raof	1000	30
4	Mariam	Adel	750	20
5	Noha	Mohamed	1600	20
6	Alaa	Khaled	[null]	30
7	Ahmed	Ali	1300	10
8	Hanaa	Sobhy	800	10
9	Aya	Sabry	1200	30

### 3-

**SELECT Pname, plocation, Dnum FROM project;**

	pname character varying (50)	plocation character varying (50)	dnum integer
	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

### 4-

**SELECT fname|| ' ' ||lname AS "full\_name", (12\*salary\*0.1) AS "ANNUAL COMM"**

**FROM employee;**

	full_name text	ANNUAL COMM numeric
1	Amr Omran	3000.0
2	Edward Hanna	1800.0
3	Maged Raoof	1200.0
4	Mariam Adel	900.0
5	Noha Mohamed	1920.0
6	Alaa Khaled	[null]
7	Ahmed Ali	1560.0
8	Hanaa Sobhy	960.0
9	Aya Sabry	1440.0

5-

**SELECT ssn, fname, salary**

**FROM employee**

**WHERE salary >1000;**

	ssn [PK] integer	fname character varying (50)	salary integer
1	321654	Amr	2500
2	512463	Edward	1500
3	968574	Noha	1600
4	112233	Ahmed	1300
5	102672	Aya	1200

6-

**SELECT ssn, fname, salary,(12\*salary) AS "Annual\_salary"**

**FROM employee**

**WHERE (12\*salary)>10000 ;**

	ssn [PK] integer	fname character varying (50)	salary integer	Annual_salary integer
1	321654	Amr	2500	30000
2	512463	Edward	1500	18000
3	521634	Maged	1000	12000
4	968574	Noha	1600	19200
5	112233	Ahmed	1300	15600
6	102672	Aya	1200	14400



7-

**SELECT fname, salary, sex FROM employee WHERE sex = 'F';**

	fname character varying (50)	salary integer	sex character varying (50)
1	Mariam	750	F
2	Noha	1600	F
3	Alaa	[null]	F
4	Hanaa	800	F
5	Aya	1200	F

8-

**SELECT dnum, dname FROM departments WHERE mgrssn=968574;**

	dnum [PK] integer	dname character varying (50)
1	100	DEPT IT

9-

**SELECT pnumber, pname, plocation FROM project WHERE dnum=10;**

	pnumber [PK] integer	pname character varying (50)	plocation character varying (50)
1	100	AL Solimaniah	Cairo_Alex Road
2	200	Al Rabwah	6th of October City
3	300	Al Rawdah	Zaied City