

Data Engineer

Assignment (3)

Under supervisor ENG: Hazem Omar

Name: Abdullah Ibrahim Mahmoud



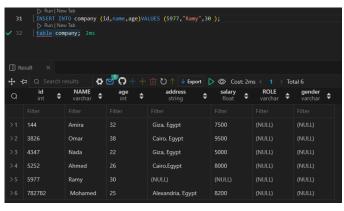
```
1 •
      create database my;
 2 •
      use my;
 3 •
     Δ
       id INT PRIMARY KEY,
        NAME VARCHAR(50),
        address CHAR(50),
 8
        salary FLOAT
      );
10 •
      DESC COMPANY;
11 •
      truncate table company;
12 •
      insert INTO company valueS
13
       (5252 ,"Ahmed", 26," Cairo,Egypt", 8000),
14
       (782782, Mohamed, 25, Alexandria, Egypt, 8200),
15
       (144, "Amira", 32," Giza, Egypt", 7500),
      ( 4347, "Nada", 22, " Giza, Egypt", 5000),
17
         3826 ,"Omar", 38," Cairo, Egypt", 9500 );
       table company;
18 •
19
```

	id	NAME	age	address	salary
•	144	Amira	32	Giza, Egypt	7500
	3826	Omar	38	Cairo, Egypt	9500
	4347	Nada	22	Giza, Egypt	5000
	5252	Ahmed	26	Cairo,Egypt	8000
	782782	Mohamed	25	Alexandria, Egypt	8200

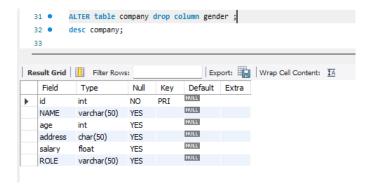
Q 3/4/5

```
insert INTO company (id,NAME,age,address,salary)valueS
( 4347,"Nada", 22," Giza, Egypt", 5000 )
         on duplicate key update
        age=values(age),
        salary= values(salary);
         -- answer for question 3

> Run | New Tab
        ALTER table company add column ROLE varchar(50);
        ALTER table company add column gender varchar(20);
        -- answer for question 4 DRun|New Tab
☐ Result
                               ₽ ₽ ₽
💠 🛱 Q Search results
                                            + + 🛅 ひ ↑ ↓ Export 🖒 ⊚ Cost: 5ms
         Field
                        Type
blob
                                       Null
                                                      Key
                                                                   Default
                                                                                   Extra
                                                                             ‡
      NAME
                     varchar(50)
                                    YES
      address
                     char(50)
      salary
                     float
      ROLE
                     varchar(50)
      gender
                     varchar(20)
                                    YES
```



Q6



Q 7

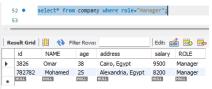
OUTPUT

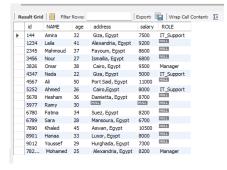
command

```
Result Grid | | Filter Rows:
                                   Export: Wrap Cell Content: IA
  id
        NAME
                                           ROLE
                                     salarv
                 age
                      address
                                                             i3 •
                                                                      insert INTO company(id,NAME,age, address,salary) valueS
                 32
                                     7500
  144
                       Giza, Egypt
                                                                     (6789, 'Sara', 28, 'Mansoura, Egypt', 6700),
                                                             14
                                           NULL
                 41
  1234 Laila
                      Alexandria, Egypt 9200
                                           NULL
                                                            15
                                                                     (7890, 'Khaled', 45, 'Aswan, Egypt', 10500),
  2345
        Mahmoud
                37
                      Fayoum, Egypt
                                    8600
  3456
        Nour
                27
                      Ismailia, Egypt
                                    6800
                                                             16
                                                                     (8901, 'Hanaa', 33, 'Luxor, Egypt', 8000),
                                           NULL
  3826
        Omar
                 38
                                    9500
                      Cairo, Egypt
                                           NULL
                                                            17
                                                                     (9012, 'Youssef', 29, 'Hurghada, Egypt', 7300),
  4347 Nada
                22 Giza, Egypt
                                    5000
                                           NULL
  4567
        Δli
                 50
                      Port Said, Egypt
                                    11000
                                                                     (1234, 'Laila', 41, 'Alexandria, Egypt', 9200),
                                                            18
                                          NULL
  5252 Ahmed
                26
                    Cairo,Egypt
                                    8000
                                                            19
                                                                     (2345, 'Mahmoud', 37, 'Fayoum, Egypt', 8600),
                                           NULL
  5678
        Hesham
                36
                      Damietta, Egypt
                                    8700
                30
                                           NULL
                                    NULL
  5977
       Ramy
                                                             10
                                                                     (3456, 'Nour', 27, 'Ismailia, Egypt', 6800),
                                           NULL
       Fatma
  6780
                                    8200
                      Suez, Egypt
                                                            -1
                                                                     (4567, 'Ali', 50, 'Port Said, Egypt', 11000),
                                           NULL
                28
                     Mansoura, Egypt 6700
  6789
       Sara
                                           NULL
                                                                     (5678, 'Hesham', 36, 'Damietta, Egypt', 8700),
  7890
        Khaled
                 45
                      Aswan, Egypt
                                     10500
                                                            -2
                                          NULL
                33 Luxor, Egypt
                                    8000
                                                            13
                                                                      (6780, 'Fatma', 34, 'Suez, Egypt', 8200);
                                           NULL
  9012
        Youssef
                                    7300
                29
                      Hurghada, Egypt
  782... Mohamed 25 Alexandria, Egypt 8200
                                                             4 •
                                                                     TABLE COMPANY;
```

08/9/10



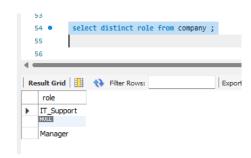




10// ANSWER

Q11

Answer



Q12

Answer

Don't have any record which name of this is called nada



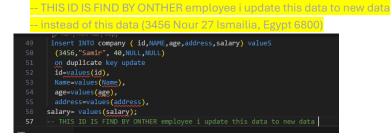
Q 13

Before

> 1	144	Amira	32	Giza, Egypt	7500	IT_Support
After						
>1	144	Amira	32	Cairo, Egypt	8500	IT_Support
command 44 table company; 3ms Run New Tab						

update company set salary=8500 where NAME ='Amira';

Q 14





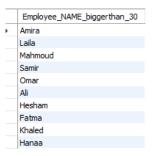
Q 15

select NAME AS Employee_NAME ,salary as Employee_Salary from company;

	Employee_NAME	Employee_Salary
•	Amira	8500
	Laila	9200
	Mahmoud	8600
	Samir	NULL
	Omar	9500
	Ali	11000
	Ahmed	8000
	Hesham	8700
	Ramy	NULL
	Fatma	8200
	Sara	6700
	Khaled	10500
	Hanaa	8000
	Youssef	7300
	Mohamed	8200

0 16

• select NAME AS Employee_NAME_biggerthan_30 from company where age>30 ;_



```
Q 17

45 -- before increase
46 • select NAME AS Employee_NAME ,salary as Employee_Salary from company;
47 • UPDATE COMPANY
48 SET salary = salary * 1.10
49 WHERE salary IS NOT NULL;
50 -- after increase
51 • select NAME AS Employee_NAME ,salary as Employee_Salary from company;
```

Employee_NAME	Employee_Salary
Amira	8500
Laila	9200
Mahmoud	8600
Samir	HULL
Omar	9500
Ali	11000
Ahmed	8000
Hesham	8700
Ramy	NULL
Fatma	8200
Sara	6700
Khaled	10500
Hanaa	8000
Youssef	7300
Mohamed	8200

Employee_NAME	Employee_Salary
Amira	9350
Laila	10120
Mahmoud	9460
Samir	NULL
Omar	10450
Ali	12100
Ahmed	8800
Hesham	9570
Ramy	NULL
Fatma	9020
Sara	7370
Khaled	11550
Hanaa	8800
Youssef	8030
Mohamed	9020

Q 18/19

51 • select NAME AS Employee_NAME ,age , salary from company WHERE age >35 and salary >800; Employee_NAME age salary 18 Laila 41 10120 Mahmoud 9460 37 Omar 38 10450 50 12100 Ali Hesham 9570 36 Khaled 45 11550 19 select NAME AS Employee_NAME ,age , salary from company WHERE age >25 and salary <9000 ; Employee_NAME age salary ▶ Ahmed 8800 26 7370 Sara 28 Hanaa 33 8800 29 8030 Youssef select Name Employee_NAME , address from company WHERE TRIM(address) NOT IN ('Cairo, Egypt', 'Cairo, Egypt'); | Kesuit Grid | HE TO HITER KOWS: Employee_NAME address ▶ Laila Alexandria, Egypt Mahmoud Fayoum, Egypt Port Said, Egypt Ali Hesham Damietta, Egypt Fatma Suez, Egypt Sara Mansoura, Egypt Khaled Aswan, Egypt Hanaa Luxor, Egypt Youssef Hurghada, Egypt Mohamed Alexandria, Egypt Q 21 select Name Employee_NAME , salary from company WHERE salary between 5000 and 8000; Result Grid | HH V Filter ROWS: Employee_NAME salary Sara 7370 Q 22 select Name Employee_NAME , salary as normal_salary ,(salary*12) as annual_salary from company ; Employee_JNAME normal_salary annual_salary
Amira 9350 112200
Lasia 10.120 122440
Markmood 9460 113520
Samir 100500
Chor 104500 145500
Ali 12100 145500
Ali 13100
Ali 131

select Name Employee_NAME , age, salary ,address from company where age >30 and salary >7000 and address <> 'Giza, Egypt';

	Employee_NAME	age	salary	address
١	Amira	32	9350	Cairo, Egypt
	Laila	41	10120	Alexandria, Egypt
	Mahmoud	37	9460	Fayoum, Egypt
	Omar	38	10450	Cairo, Egypt
	Ali	50	12100	Port Said, Egypt
	Hesham	36	9570	Damietta, Egypt
	Fatma	34	9020	Suez, Egypt
	Khaled	45	11550	Aswan, Egypt
	Hanaa	33	8800	Luxor, Egypt