

2021 S91

Create table EMPLOYEE

(E-Id	integer	not null,
F-Name	varchar(15)	not null,
M-Name	Char	
L-Name	varchar(15)	not null,
Sex	Char	Default = "M",
B-Date	Date	
Address	varchar(25)	
Dept-no	integer	not null,

Constraint EMP P.K  
Primary key (E-Id),  
Constraint EMP F.K  
Foreign key (Dept-no) References Department  
(Dept-no)  
on delete set null on update set cascade);

Select \*

From EMPLOYEE

Where F-Name Like "A%"

نتائج الاستعلام تظهر جميع بيانات الموظفين التي تبدأ باسم

بفريق A/A



```
select * - Id, F-Name, L-Name, sex, B-Date,
Address, Dept count(*)
From EMPLOYEE
where Dept-no = 2;
```

```
select * , Count(*)
From EMPLOYEE
where Dept-no = 2;
```

```
select Count(*)
From EMPLOYEE
where Dept-no = 2;
```

E-Id	F-Name	M-Name	L-Name	Sex	B-Date	Address	Dept-no	count
102	Ahmed	A	Mohamed	M	20/11/1970	2E10baorst.	2	1

1- Update EMPLOYEE  
set Address = "RAMSES"  
where Dept-no = 1;

2- Alter table EMPLOYEE Add salary smallint;

يفضل رسم الجدول في أبيض الآلة



not null,

2

5

5

2

From 2 to 7

to

7.0

3



select \*  
 From Student  
 where F.Name Like "A%";

Ali, Adel

St. Id	F. Name	M. Name	L. Name	B. Date	sex	Address	GPA	DEP. Id
6577	Ali	J	Farouk	30/1/1999	M	Giza	0.765	4
8799	Adel	Y	Hamdy	15/9/2000	M	MATROH	0.967	1

select \*  
 From Student  
 where DEP. no = 5;

Mona

St. Id	F. Name	M. Name	L. Name	B. Date	sex	Address	GPA	DEP. Id
5466	Mona	T	Sid	2/4/2000	F	CAIRO	0.887	5

sex char default "M";

Alter table student sex char default "M";



Delete From Student  
where Dep.No = 1;

1-

أحمد محمد عبد الله Adel, Mohamed

Alter table student ADD Teachers Varchar(15)  
not null;

create table Patients

(Pat-id integer not null,

F-Name varchar(20),

L-Name varchar(20),

Gender char

City varchar(15) DEFAULT "Cairo",

Phone-no varchar(16),

Dr-code smallint not null,

Constraint Patients P.k

Primary Key (Pat-id),

Constraint Patients F.k

Foreign Key ~~Pat~~Dr-code References Doctors

(~~Dr-code~~)(Dr-id)

on delete set default on update set cascade;



insert into Patients (P-id, F-Name, L-Name, city)  
Values 3007, Mostafa, Hassan, Cairo;

تأخر في تنفيذ الأمر بسبب عدم تلبية شرط التكامل المرجعي

select \*

from Patients  
where City = "Cairo";

1. Drop table Patients cascade غير صحيح لأنه سيحذف الجدول بالكامل  
الحل الصحيح ← Delete From Patients;
2. Alter table Patients Add Room.id smallint not null;

1- Update Patients

set Dr.code = 1003

where Pat-id = 3009;

لا ينفذ الأمر لأنه لا يوجد مريض برقم 3009

2- select distinct city

from patients;

where

city

city
Cairo
Alex
PortSaid
Damietta
Suez



# SQL 2016

ex  
C1

- 1 - update from Employee  
set salary = 3000  
where dept.no = 1;
- 2 - select count(\*)  
from Employee  
where dept.no = 5;

3 - لا يحذف رقم حقل count و به عدد الموظفين في القسم رقم 3

- 3 - select sum(salary)  
from Employee;

- 4 - select \*  
from Employee  
where F-Name Like "J%";

- 5 - select F-Name, salary \* 12  
from Employee;

- 6 - لا تملك القيم الفريدة في الحقل salary

7 -

- 8 - لا لانه ينشأ في قيود التكاثر المتري
- 9 - 333447777 333445555 رقم الموظف رقم الى
- 10 - حذف بيانات الموظف Robert من جدول الموظفين  
كما لا ستحذف اسم من حيث الاسم لانه لا يوجد موظف باسم Robert



SQL sep 2016

```
create table Doctors  
(Doc_No          varchar(8)      not null,  
  FName          varchar(20)     not null,  
  MID            char            ,  
  L-Name         varchar(20)     not null,  
  sex            char            check (sex = 'M' or sex = 'F'),  
  Address        varchar(30)     ,  
  Dep-ID         integer         not null,  
  constraint Doctors P.K  
  Primary key (Doc_No),  
  constraint Doctors (F.K) references Department (DepID)  
  on delete set null on update set cascade);
```

```
Alter table Doctors Add Spec varchar(10);
```



SQL 2015

Create table Employee

( E-No integer not null

F-Name varchar(15) not null

M-ID char

L-Name varchar(15) not null

Sex char

B-DATE Date

SALARY Dec(6,2)

ADDRESS varchar(15)

DEPT-No integer not null

constraint EMP P.K

Primary key (E-No)

Constraint EMP F.K

Foreign key (DEPT-No) References Department (DEPT-No)

constraint F-Name

Unique (F-Name));

1- Alter table Employee Add No-Phone varchar(15);

2- Create index Employee-index on Employee (F-Name Desc);

3- ~~select~~ sum(\*), Ave(\*)

select sum(salary), Ave(salary), Count(\*)

from Employee

where DEPT-No = 4;

4- Delete From Employee

where F-Name = "Ahmed";



## SQL 2014

```
Create table students
( st_id integer not null,
  F_Name varchar(20) not null,
  M_Name char,
  L_Name varchar(20) not null,
  Sex char check (sex="M" or sex="F"),
  B-Date Date,
  Address varchar(30),
  Degree integer,
  S-id small integer,
  Constraint stu P.k
  Primary key (st-id),
  Constraint stu F.k
  Foreign key (S-id) References subjects (s-id) );
```

1. Alter table students Add Degree varchar(3);

2. select \*

from students

where F\_Name="Ali";

3. select F\_Name, L\_Name

from students

where degree > 50;

4. Drop table students cascade;



SQL 2013

```
create table Books
( Book ID integer not null,
  Book Name varchar(30) not null,
  Price Dec (4,2),
  Version Date Date,
  Published By char not null check ("A" < "B"),
  Writer smallint not null
constraint Books PK
primary key (Book ID),
constraint Books FK
foreign key (Writer References writers (writer)
on delete set null on update set cascade);
```

```
Alter table Books Add Book color varchar(10);
```

```
select Book Name
```

```
from Books
```

```
where Book Name like "A%";
```

```
select Distinct Price
```

```
from Books ;
```

Price
60.00
45.75
55.00
75.90

```
select Price * 10 / 100
```

```
from Books ;
```



## SQL 2012 seb

```
create table students
( St_No integer not null,
  FName varchar(14) not null,
  LName varchar(15) not null,
  Sex char,
  BirthDate Date,
  Address varchar(30),
  Dep_No integer not null,
  constraint students P.K
  Primary key (St_No),
  constraint sta F.K
  Foreign key (Dep_No) References Department(Dep_No)
  on delete set null on update set cascade,
  constraint st-no
  Unique(st-no));
```

```
select *
from students
order by F-Name;
```

```
select count(*)
from students
where Dep_No = 2;
```

تأنيذ العلم تكبر عقل فيه السر ، هو 3 طلاب