

کامند ها و نتایج

1

```
mysql> describe patients  
-> ;
```

Field	Type	Null	Key	Default	Extra
patient_id	int	NO	PRI	NULL	auto_increment
first_name	varchar(50)	NO		NULL	
last_name	varchar(50)	NO		NULL	
national_id	char(10)	NO	UNI	NULL	
birth_date	date	NO		NULL	
gender	enum('???' , '??')	NO		NULL	
phone_number	char(11)	NO		NULL	

```
7 rows in set (0.04 sec)
```

2

```
mysql> describe doctors
```

```
-> ;
```

Field	Type	Null	Key	Default	Extra
doctor_id	int	NO	PRI	NULL	auto_increment
first_name	varchar(50)	NO		NULL	
last_name	varchar(50)	NO		NULL	
specialization	varchar(100)	NO		NULL	
phone_number	char(11)	NO		NULL	

```
5 rows in set (0.00 sec)
```

```
mysql> from doctors select * ;
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'from doctors select *' at line 1
```

```
mysql> select * from doctors;
```

doctor_id	first_name	last_name	specialization	phone_number
1	????	?????	????	09111111111
2	????	?????	????? ???	09122222222

```
2 rows in set (0.00 sec)
```

```
mysql> select * from patients;
```

patient_id	first_name	last_name	national_id	birth_date	gender	phone_number
1	???	?????	1234567890	1990-01-01	???	09123456789
2	?????	?????	0987654321	1985-05-15	??	09187654321
232333444	shad	shadi	2122333444	2001-01-01	???	09093355555
1222333444	mahan	mahani	1122333444	2000-02-02	???	09093334444

```
4 rows in set (0.00 sec)
```

# 3

```
mysql> describe doctors
```

```
-> ;
```

Field	Type	Null	Key	Default	Extra
doctor_id	int	NO	PRI	NULL	auto_increment
first_name	varchar(50)	NO		NULL	
last_name	varchar(50)	NO		NULL	
specialization	varchar(100)	NO		NULL	
phone_number	char(11)	NO		NULL	

```
5 rows in set (0.00 sec)
```

```
mysql> insert into doctors( doctor_id, first_name , last_name , specializati  
on , phone_number ) values ("1" , "farhan" , "farhani" , "heart" , "09091112222" ),("2" , "shahram" , "rad" , "knee" , "09993334444" );
```

```
ERROR 1062 (23000): Duplicate entry '1' for key 'doctors.PRIMARY'
```

```
mysql> insert into doctors( doctor_id, first_name , last_name , specialization , phone_number ) values ("5" , "farhan" , "farhani" , "heart" , "09091112  
222" ),("6" , "shahram" , "rad" , "knee" , "09993334444" );
```

```
Query OK, 2 rows affected (0.00 sec)
```

```
Records: 2 Duplicates: 0 Warnings: 0
```

```
mysql> describe department
```

```
-> s;
```

```
ERROR 1146 (42S02): Table 'hospital_shafa.department' doesn't exist
```

```
mysql> describe departments;
```

Field	Type	Null	Key	Default	Extra
department_id	int	NO	PRI	NULL	auto_increment
department_name	varchar(100)	NO		NULL	

```
2 rows in set (0.00 sec)
```

```
mysql> insert into departments(department_name) values ('rest' , 'surgery_ro  
om' , 'emergency' , 'special_cures');
```

```
ERROR 1136 (21S01): Column count doesn't match value count at row 1
```

```
mysql> insert into departments(department_name) values ('rest') , ('surgery_  
room') , ('emergency') , ('special_cures');
```

```
Query OK, 4 rows affected (0.01 sec)
```

# 4

```
mysql> describe rooms
-> ;
```

Field	Type	Null	Key	Default	Extra
room_id	int	NO	PRI	NULL	auto_increment
room_number	varchar(10)	NO		NULL	
department_id	int	YES	MUL	NULL	

```
3 rows in set (0.00 sec)
```

```
mysql> describe rooms;
```

Field	Type	Null	Key	Default	Extra
room_id	int	NO	PRI	NULL	auto_increment
room_number	varchar(10)	NO		NULL	
department_id	int	YES	MUL	NULL	

```
3 rows in set (0.00 sec)
```

```
mysql> insert into rooms (room_number , department_id) values('1' , 1),('2' , 2) ,('3' , 3 ) ;
```

```
Query OK, 3 rows affected (0.01 sec)
```

```
Records: 3  Duplicates: 0  Warnings: 0
```

```
mysql> describe admissions ;
```

```
ERROR 1146 (42S02): Table 'hospital_shafa.admissions' doesn't exist
```

```
mysql> describe admissions;
```

Field	Type	Null	Key	Default	Extra
admission_id	int	NO	PRI	NULL	auto_increment
patient_id	int	YES	MUL	NULL	
room_id	int	YES	MUL	NULL	
admission_date	date	NO		NULL	
discharge_date	date	YES		NULL	

```
5 rows in set (0.00 sec)
```

# 5

```
mysql> insert into admissions ( patient_id , room_id ,admission_date , discharge_date ) values ( 1,1 , '2024-01-01' , '2024-01-01'),(2,2 , '2024-01-02', '2024-01-02');
'>
'> '
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ''
at line 3
mysql> insert into admissions ( patient_id , room_id ,admission_date , discharge_date ) values ( 1,1 , '2024-01-01' , '2024-01-01'),(2,2 , '2024-01-02', '2024-01-02');
Query OK, 2 rows affected (0.01 sec)
Records: 2  Duplicates: 0  Warnings: 0

mysql> describe services
-> ;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| service_id | int           | NO   | PRI | NULL    | auto_increment |
| service_name | varchar(100)  | NO   |     | NULL    |                |
| cost        | decimal(10,2) | NO   |     | NULL    |                |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> insert into services (service_name , cost ) values ( '20500','surgury'),('5000','visit');
ERROR 1366 (HY000): Incorrect decimal value: 'surgury' for column 'cost' at row 1
mysql> describe services
-> ;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| service_id | int           | NO   | PRI | NULL    | auto_increment |
| service_name | varchar(100)  | NO   |     | NULL    |                |
| cost        | decimal(10,2) | NO   |     | NULL    |                |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> insert into services (service_name , cost ) values ( 'surgury' , '10000'),('visit','5000');
Query OK, 2 rows affected (0.01 sec)
Records: 2  Duplicates: 0  Warnings: 0
```

6

```
mysql> describe visits;
```

Field	Type	Null	Key	Default	Extra
visit_id	int	NO	PRI	NULL	auto_increment
doctor_id	int	YES	MUL	NULL	
patient_id	int	YES	MUL	NULL	
visit_date	date	NO		NULL	

```
4 rows in set (0.00 sec)
```

```
mysql> insert into visits(doctor_id , patient_id , visit_date ) values (1,1,
'2024-1-2'),(2,2,'2024-2-1');
```

```
Query OK, 2 rows affected (0.01 sec)
```

```
Records: 2  Duplicates: 0  Warnings: 0
```

```
mysql> describe patients;
```

Field	Type	Null	Key	Default	Extra
patient_id	int	NO	PRI	NULL	auto_increment
first_name	varchar(50)	NO		NULL	
last_name	varchar(50)	NO		NULL	
national_id	char(10)	NO	UNI	NULL	
birth_date	date	NO		NULL	
gender	enum('???','??')	NO		NULL	
phone_number	char(11)	NO		NULL	

```
7 rows in set (0.00 sec)
```

```
mysql> describe doctors;
```

Field	Type	Null	Key	Default	Extra
doctor_id	int	NO	PRI	NULL	auto_increment
first_name	varchar(50)	NO		NULL	
last_name	varchar(50)	NO		NULL	
specialization	varchar(100)	NO		NULL	
phone_number	char(11)	NO		NULL	

```
5 rows in set (0.00 sec)
```

7

```
mysql> describe departments;
```

Field	Type	Null	Key	Default	Extra
department_id	int	NO	PRI	NULL	auto_increment
department_name	varchar(100)	NO		NULL	

2 rows in set (0.00 sec)

```
mysql> describe rooms;
```

Field	Type	Null	Key	Default	Extra
room_id	int	NO	PRI	NULL	auto_increment
room_number	varchar(10)	NO		NULL	
department_id	int	YES	MUL	NULL	

3 rows in set (0.00 sec)

```
mysql> describe admissions;
```

Field	Type	Null	Key	Default	Extra
admission_id	int	NO	PRI	NULL	auto_increment
patient_id	int	YES	MUL	NULL	
room_id	int	YES	MUL	NULL	
admission_date	date	NO		NULL	
discharge_date	date	YES		NULL	

5 rows in set (0.00 sec)

```
mysql> describe services;
```

Field	Type	Null	Key	Default	Extra
service_id	int	NO	PRI	NULL	auto_increment
service_name	varchar(100)	NO		NULL	
cost	decimal(10,2)	NO		NULL	

3 rows in set (0.00 sec)



# 8

```
mysql> describe visits;
```

Field	Type	Null	Key	Default	Extra
visit_id	int	NO	PRI	NULL	auto_increment
doctor_id	int	YES	MUL	NULL	
patient_id	int	YES	MUL	NULL	
visit_date	date	NO		NULL	

```
4 rows in set (0.00 sec)
```

```
mysql> describe surgeries;
```

Field	Type	Null	Key	Default	Extra
surgery_id	int	NO	PRI	NULL	auto_increment
patient_id	int	YES	MUL	NULL	
doctor_id	int	YES	MUL	NULL	
surgery_date	date	NO		NULL	
room_id	int	YES	MUL	NULL	

```
5 rows in set (0.00 sec)
```

```
mysql> select * from patients;
```

patient_id	first_name	last_name	national_id	birth_date	gender	phone_number
1	???	?????	1234567890	1990-01-01	???	09123456789
2	?????	?????	0987654321	1985-05-15	??	09187654321
232333444	shad	shadi	2122333444	2001-01-01	???	09093355555
1222333444	mahan	mahani	1122333444	2000-02-02	???	09093334444

```
4 rows in set (0.00 sec)
```

# 9

```
mysql> select * from doctors ;
```

doctor_id	first_name	last_name	specialization	phone_number
1	????	?????	????	09111111111
2	????	?????	????? ???	09122222222
5	farhan	farhani	heart	09091112222
6	shahram	rad	knee	09993334444

```
4 rows in set (0.00 sec)
```

```
mysql> select p.first_name , p.last_name from patients p join admissions a ON p.patient_id = a.patient_id where a.admission_date = '2024-01-01' and date diff(a.discharge_date , a.admission_date) <= 10 ;
```

first_name	last_name
???	?????

```
1 row in set (0.00 sec)
```

```
mysql> select distinct d.first_name , d.last_name from doctors d join visits v on d.doctor_id = v.doctor_id join admissions a on v.patient_id= a .patient_id where a.admission_date='2024-01-01' and datediff(a.discharge_date , a.admission_date)<=10;
```

first_name	last_name
????	?????

```
1 row in set (0.00 sec)
```

```
mysql> select p.first_name , p.last_name from patients p join surgeries s on p.patient_id=s.patient_id join doctors d on s.doctor_id = d.doctor_id where d.doctor_id = 1 and year(s.surgery_date) = 2024 and month(s.surgery_date) between 3 and 5 ;
Empty set (0.00 sec)
```

# 10

```
mysql> select s.service_name from services s join admissions a on s.service_id = a.admission_id where a.department_id = 1 ;
ERROR 1054 (42S22): Unknown column 'a.department_id' in 'where clause'
mysql> describe admissions;
```

Field	Type	Null	Key	Default	Extra
admission_id	int	NO	PRI	NULL	auto_increment
patient_id	int	YES	MUL	NULL	
room_id	int	YES	MUL	NULL	
admission_date	date	NO		NULL	
discharge_date	date	YES		NULL	

5 rows in set (0.00 sec)

```
mysql> select * from admissions
-> ;
```

admission_id	patient_id	room_id	admission_date	discharge_date
1	1	1	2023-10-01	2023-10-05
2	2	2	2023-10-02	2023-10-12
3	1	1	2024-01-01	2024-01-01
4	2	2	2024-01-02	2024-01-02

4 rows in set (0.00 sec)

```
mysql> select s.service_name from services s join admissions a on s.service_id = a.admission_id where a.room_id = 1 ;
```

service_name
?????
surgery

2 rows in set (0.00 sec)

# 11

```
mysql> select s.service_name from services s join admissions a on s.service_id = a.admission_id where a.room_id = 2 ;
+-----+
| service_name |
+-----+
| ?????       |
| visit       |
+-----+
2 rows in set (0.00 sec)

mysql> select s.seservice_name from services s join visits v on s.service_id
= v.visit_id join doctors d on v.doctor_id = d.doctor_id where d.doctor_id =
1 ;
ERROR 1054 (42S22): Unknown column 's.seservice_name' in 'field list'
mysql> select s.service_name from services s join visits v on s.service_id = v.visit_id join doctors d on v.doctor_id = d.doctor_id where d.doctor_id = 1 ;
+-----+
| service_name |
+-----+
| ?????       |
| surgery      |
+-----+
2 rows in set (0.00 sec)

mysql> select sum(s.cost) as total_cost from services s join admissions a on
s.service_id = a.admission_id where a.patient_id = 1;
+-----+
| total_cost |
+-----+
| 5010000.00 |
+-----+
1 row in set (0.00 sec)

mysql>
```