

Assignment No:-2

Create a database which consists of the following tables with appropriate constraints like primary key, foreign key, check constraints, not null etc.

Suppliers - S (S#, Name, Status, City)

Parts - P (P#, Pname, Colour, Weight, City)

Projects - J (J#, Jname, City)

Shipment - SPJ (S#, P#, J#, Qty)

```
mysql> Create table suppliers( S_id int, S_name varchar(20),
S_status varchar(20), S_city varchar(20), Primary key(S_id) );
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> desc suppliers;
```

Field	Type	Null	Key	Default	Extra
S_id	int	NO	PRI	NULL	
S_Name	varchar(10)	YES		NULL	
Status	varchar(30)	YES		NULL	
City	varchar(15)	YES		NULL	

```
4 rows in set (0.01 sec)
```

```
mysql> Create table Parts(
```

```
-> P_id int,
```

```
-> P_name varchar(20),
```

```
-> P_colour varchar(20),
```

```
-> P_weight varchar(20),
```

```
-> P_city varchar(20),
```

```
-> Primary key(P_id)
```

->);

Query OK, 0 rows affected (0.02 sec)

mysql> desc parts;

Field	Type	Null	Key	Default	Extra
P_id	int	NO	PRI	NULL	
P_Name	varchar(10)	YES		NULL	
Colour	varchar(10)	YES		NULL	
Weight	int	YES		NULL	
City	varchar(15)	YES		NULL	

5 rows in set (0.00 sec)

mysql> Create table Projects(

-> J_id int,

-> J_name varchar(20),

-> J_city varchar(20),

-> Primary key(J_id)

->);

Query OK, 0 rows affected (0.01 sec)

mysql> desc projects;

Field	Type	Null	Key	Default	Extra
J_id	int	NO	PRI	NULL	
J_Name	varchar(10)	YES		NULL	
City	varchar(15)	YES		NULL	

3 rows in set (0.00 sec)

```
mysql> Create table Shipment(
-> S_id int,
-> P_id int,
-> J_id int,
-> Qty float,
-> Foreign key(S_id) references Suppliers(S_id),
-> Foreign key(P_id) references Parts(P_id),
-> Foreign key(J_id) references Projects(J_id),
-> Primary key(S_id,P_id,J_id)
-> );
```

Query OK, 0 rows affected (0.02 sec)

```
mysql> desc shipment;
```

```
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| S_id  | int  | YES  | MUL | NULL    |      |
| P_id  | int  | YES  | MUL | NULL    |      |
| J_id  | int  | YES  | MUL | NULL    |      |
| qty   | int  | YES  |     | NULL    |      |
+-----+-----+-----+-----+-----+-----+
```

4 rows in set (0.00 sec)

Create a database which consists of the following tables with appropriate constraints like primary key, foreign key, check constraints, not null etc.

employee (employee name, street, city) ,employee name is primary key

works (employee name, company name, salary)

company (company name, city) ,company name is primary key

manages (employee name, manager name)

##CREATE TABLE COMMAND

```
mysql> create table employee(  
-> SSN int NOT NULL,  
-> F_name varchar(255) NOT NULL,  
-> L_name varchar(255) NOT NULL,  
-> Address varchar(255) NOT NULL,  
-> Dept_no int NOT NULL,  
-> primary key(SSN)  
-> );
```

Query OK, 0 rows affected (0.05 sec)

##DESCRIBE COMMAND

```
mysql> desc employee;
```

Field	Type	Null	Key	Default	Extra
SSN	int	NO	PRI	NULL	
F_name	varchar(255)	NO		NULL	
L_name	varchar(255)	NO		NULL	
Address	varchar(255)	NO		NULL	
Dept_no	int	NO		NULL	

5 rows in set (0.01 sec)

```
mysql> select * from employee;
```

Empty set (0.00 sec)

##ALTER TABLE COMMAND

```
mysql> alter table employee  
-> ADD DOB date NOT NULL,  
-> ADD Salary bigint NOT NULL,
```

-> ADD Gender char NOT NULL;
Query OK, 0 rows affected (0.08 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc employee;

Field	Type	Null	Key	Default	Extra
SSN	int	NO	PRI	NULL	
F_name	varchar(255)	NO		NULL	
L_name	varchar(255)	NO		NULL	
Address	varchar(255)	NO		NULL	
Dept_no	int	NO		NULL	
DOB	date	NO		NULL	
Salary	bigint	NO		NULL	
Gender	char(1)	NO		NULL	

8 rows in set (0.01 sec)

#INSERT QUERY

mysql> insert into employee values

- > (1,'Lionel','Messi','spain',7,'2003-09-29',26589034,'M'),
- > (2,'Krishna','Ronaldo','Portugal',5,'2003-09-29',26589034,'M'),
- > (3,'Suniel','Chetri','India',7,'2003-09-29',26589034,'M');

Query OK, 3 rows affected (0.01 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> select * from employee;

SSN	F_name	L_name	Address	Dept_no	DOB	Salary	Gender

1	Lionel	Messi	spain	7	2003-09-29	26589034	M
2	Krishna	Ronaldo	Portugal	5	2003-09-29	26589034	M
3	Suniel	Chetri	India	7	2003-09-29	26589034	M

3 rows in set (0.00 sec)

```
mysql> select SSN,L_name,F_name,Address from employee where
Dept_no=7;
```

SSN	L_name	F_name	Address
1	Messi	Lionel	spain
3	Chetri	Suniel	India

2 rows in set (0.00 sec)

```
mysql> select DOB,Address from employee where F_name='Lionel' and
L_name='Messi';
```

DOB	Address
2003-09-29	spain

1 row in set (0.01 sec)

```
mysql> select F_name,L_name,salary from employee;
```

F_name	L_name	salary
Lionel	Messi	26589034
Krishna	Ronaldo	26589034

Suniel Chetri 26589034

+-----+-----+-----+

3 rows in set (0.00 sec)