

Creation Of a database Using DDL Command

Aim :

1. Create a table Employee with attribute Emp-No, Name, Designation, DOB. (consider Emp-No as primary key).

⇒ Query

```
CREATE TABLE Employee37 (Emp-No INT(10) PRIMARY KEY,
Name VARCHAR(15), Designation VARCHAR(20), DOB
DATETIME(6));
```

2. Display the description of Employee Table-

⇒ Query

```
desc employee37;
```

Field	Type	Null	key	Default	Extra
Emp- No	int	No	PRI	NULL	
Name	varchar (15)	YES		NULL	
Designation	varchar (20)	YES		NULL	
DOB	datetime (6)	YES		NULL	

3. Add attributes HireDate, address

Query

```
ALTER TABLE Employee37 ADD COLUMN HireDate  
DATETIME(6);
```

```
ALTER TABLE Employee37 ADD COLUMN Address  
VARCHAR(30);
```

desc employee;

Field	Type	Null	Key	Default	Extra
Emp-Id	int	No	PRI	NULL	
Name	varchar(15)	YES		NULL	
Designation	varchar(20)	YES		NULL	
DoB	datetime(6)	YES		NULL	
Hire Date	datetime(6)	YES		NULL	
Address	varchar(30)	YES		NULL	

4. Delete the attribute address

```
ALTER TABLE Employee37 DROP COLUMN address;
```


5. Create a table EmpBackup from the table Employee

Query⇒

```
CREATE TABLE EmpBackup AS (SELECT * FROM Employee);
```

```
desc EmpBackup;
```

Field	Type	Null	Key	Default	Extra
Emp-No	int	No		NULL	
Name	varchar(15)	YES		NULL	
Designation	varchar(20)	YES		NULL	
DOB	datetime(6)	YES		NULL	
Hier Date	datetime(6)	YES		NULL	

6. Rename the EmpBackup table as EmpBkup

Query⇒

```
ALTER TABLE empbackup RENAME TO EmpBkup;
```

```
SHOW TABLES;
```


Tables in Organization
empbkup
employee37

7. Delete the table EmpBkup;

Query ⇒

DROP TABLE EmpBkup;

show TABLES;

Tables in Organization
employee37

Result:

output obtained successfully

```
mysql> ALTER TABLE Employee37 DROP COLUMN address;
Query OK, 0 rows affected (1.48 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> desc employee37;
```

Field	Type	Null	Key	Default	Extra
Emp_No	int	NO	PRI	NULL	
Name	varchar(15)	YES		NULL	
Designation	varchar(20)	YES		NULL	
DOB	datetime(6)	YES		NULL	
HierDate	datetime(6)	YES		NULL	

5 rows in set (0.04 sec)

```
mysql> SHOW TABLES;
```

Tables_in_organization
employee37

1 row in set (0.00 sec)

```
mysql> CREATE TABLE EmpBackup AS(SELECT * FROM Employee37);
Query OK, 0 rows affected (1.55 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> SHOW TABLES;
```

Tables_in_organization
empbackup
employee37

2 rows in set (0.08 sec)

```
mysql> desc empbackup;
```

Field	Type	Null	Key	Default	Extra
Emp_No	int	NO		NULL	
Name	varchar(15)	YES		NULL	

Query OK, 0 rows affected (0.91 sec)

mysql> desc employee;

ERROR 1146 (42S02): Table 'organization.employee' doesn't exist

mysql> CREATE TABLE Employee37(Emp_No INT(10) PRIMARY KEY,Name VARCHAR(15),Designation VARCHAR(20),DOB DATETIME(6));

Query OK, 0 rows affected, 1 warning (1.05 sec)

mysql> desc employee;

ERROR 1146 (42S02): Table 'organization.employee' doesn't exist

mysql> desc employee37;

Field	Type	Null	Key	Default	Extra
Emp_No	int	NO	PRI	NULL	
Name	varchar(15)	YES		NULL	
Designation	varchar(20)	YES		NULL	
DOB	datetime(6)	YES		NULL	

4 rows in set (0.00 sec)

mysql> ALTER TABLE Employee ADD COLUMN HierDate DATETIME(6);

ERROR 1146 (42S02): Table 'organization.employee' doesn't exist

mysql> ALTER TABLE Employee37 ADD COLUMN HierDate DATETIME(6);

Query OK, 0 rows affected (0.62 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> ALTER TABLE Employee37 ADD COLUMN Address varchar(30);

Query OK, 0 rows affected (0.98 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc employee37;

Field	Type	Null	Key	Default	Extra
Emp_No	int	NO	PRI	NULL	
Name	varchar(15)	YES		NULL	
Designation	varchar(20)	YES		NULL	
DOB	datetime(6)	YES		NULL	
HierDate	datetime(6)	YES		NULL	
Address	varchar(30)	YES		NULL	

6 rows in set (0.01 sec)

mysql> ALTER TABLE Employee37 DROP COLUMN address;

2 rows in set (0.08 sec)

mysql> desc empbackup;

Field	Type	Null	Key	Default	Extra
Emp_No	int	NO		NULL	
Name	varchar(15)	YES		NULL	
Designation	varchar(20)	YES		NULL	
DOB	datetime(6)	YES		NULL	
HierDate	datetime(6)	YES		NULL	

5 rows in set (0.09 sec)

mysql> ALTER TABLE empbackup RENAME TO EmpBkup;
Query OK, 0 rows affected (0.76 sec)

mysql> SHOW TABLES;

Tables_in_organization
empbkup
employee37

2 rows in set (0.10 sec)

mysql> DROP EmpBkup;

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 'EmpBkup' at line 1

mysql> DROP TABLE EmpBkup;

Query OK, 0 rows affected (1.21 sec)

mysql> SHOW TABLES;

Tables_in_organization
employee37

1 row in set (0.16 sec)

mysql> desc EmpBkup;

ERROR 1146 (42S02): Table 'organization.empbkup' doesn't exist

mysql> desc empbackup;

ERROR 1146 (42S02): Table 'organization.empbackup' doesn't exist