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**Roll NO:142**

**Div :A**

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## Assignment No 1

- **create database or use existing database**

```
mysql> use student142;
```

Database changed

```
mysql> show tables;
```

Empty set (0.05 sec)

- **show structure of database**

```
mysql> desc emp;
```

Field	Type	Null	Key	Default	Extra
eno	int(11)	YES		NULL	
ename	varchar(25)	YES		NULL	
eaddress	varchar(25)	YES		NULL	
esal	decimal(6,2)	YES		NULL	
deptno	int(11)	YES		NULL	

5 rows in set (0.02 sec)

- **Insert value in employee table**

```
mysql> insert into emp values(101,'Sachin','Mumbai',5647.23,2);
```

Query OK, 1 row affected (0.06 sec)

```
mysql> insert into emp values(102,'Vinod','Banglore',3457.23,5);
```

Query OK, 1 row affected (0.09 sec)

```
mysql> insert into emp values(104,'John','Pune',7623.65,3);
```

Query OK, 1 row affected (0.09 sec)

```
mysql> insert into emp values(103,'Julie','Nashik',5323.65,2);
```

Query OK, 1 row affected (0.08 sec)

```
mysql> insert into emp values(106,'Apurva','Indore',6723.64,4);
```

Query OK, 1 row affected (0.06 sec)

- **show table of employee record**

```
mysql> select * from emp;
```

```
+-----+-----+-----+-----+-----+
| eno | ename | eaddress | esal | deptno |
+-----+-----+-----+-----+-----+
| 101 | Sachin | Mumbai | 5647.23 | 2 |
| 102 | Vinod | Banglore | 3457.23 | 5 |
| 104 | John | Pune | 7623.65 | 3 |
| 103 | Julie | Nashik | 5323.65 | 2 |
```

```
| 106 | Apurva | Indore | 6723.64 | 4 |
```

```
+-----+-----+-----+-----+-----+
```

5 rows in set (0.00 sec)

## DDL COMMANDS

### 1)Alter table: add

used to add new column name in table

```
mysql> alter table emp add dname int;
```

Query OK, 5 rows affected (0.45 sec)

Records: 5 Duplicates: 0 Warnings: 0

```
mysql> desc emp;
```

```
+-----+-----+-----+-----+-----+
```

```
| Field | Type | Null | Key | Default | Extra |
```

```
+-----+-----+-----+-----+-----+
```

```
| eno | int(11) | YES | | NULL | |
```

```
| ename | varchar(25) | YES | | NULL | |
```

```
| eaddress | varchar(25) | YES | | NULL | |
```

```
| esal | decimal(6,2) | YES | | NULL | |
```

```
| deptno | int(11) | YES | | NULL | |
```

```
| dname | int(11) | YES | | NULL | |
```

```
+-----+-----+-----+-----+-----+
```

6 rows in set (0.05 sec)

## 2)Alter table: modify

used to modify size of column

```
mysql> alter table emp modify esal decimal(7,2);
```

Query OK, 5 rows affected (0.60 sec)

Records: 5 Duplicates: 0 Warnings: 0

```
mysql> desc emp;
```

```
+-----+-----+-----+-----+-----+
```

Field	Type	Null	Key	Default	Extra
-------	------	------	-----	---------	-------

```
+-----+-----+-----+-----+-----+
```

eno	int(11)	YES		NULL	
-----	---------	-----	--	------	--

ename	varchar(25)	YES		NULL	
-------	-------------	-----	--	------	--

eaddress	varchar(25)	YES		NULL	
----------	-------------	-----	--	------	--

esal	decimal(7,2)	YES		NULL	
------	--------------	-----	--	------	--

deptno	int(11)	YES		NULL	
--------	---------	-----	--	------	--

dname	int(11)	YES		NULL	
-------	---------	-----	--	------	--

```
+-----+-----+-----+-----+-----+
```

6 rows in set (0.11 sec)

before salary column size is(6,2)

after modify it is (7,2)

## 3)Alter table:drop

used to delete the column in table

```
mysql> alter table emp drop dname;
```

Query OK, 5 rows affected (0.69 sec)

Records: 5 Duplicates: 0 Warnings: 0

```
mysql> desc emp;
```

Field	Type	Null	Key	Default	Extra
eno	int(11)	YES		NULL	
ename	varchar(25)	YES		NULL	
eaddress	varchar(25)	YES		NULL	
esal	decimal(7,2)	YES		NULL	
deptno	int(11)	YES		NULL	

5 rows in set (0.08 sec)

after drop command dname column deleted.

#### 4)truncate

used to delete all the rows/record from table

```
mysql> select * from emp1;
```

eno	ename	deptno
102	john	23
104	vinod	2
103	sachin	5
106	vijay	15

4 rows in set (0.00 sec)

```
mysql> truncate table emp1;
```

Query OK, 0 rows affected (0.08 sec)

```
mysql> select * from emp1;
```

Empty set (0.00 sec)

```
mysql> desc emp1;
```

Field	Type	Null	Key	Default	Extra
eno	int(11)	YES		NULL	
ename	varchar(25)	YES		NULL	
deptno	int(11)	YES		NULL	

3 rows in set (0.05 sec)

Here all records are get deleted but structure remains same

## 5)drop command

**used to delete all records as well as structure**

```
mysql> drop table emp1;
```

Query OK, 0 rows affected (0.37 sec)

```
mysql> select * from emp1;
```

ERROR 1146 (42S02): Table 'student142.emp1' doesn't exist

mysql> desc emp1;

ERROR 1146 (42S02): Table 'student142.emp1' doesn't exist

mysql>

- **View**

mysql> select \* from emp;

eno	ename	eaddress	esal	deptno
101	Sachin	Mumbai	5647.23	2
102	Vinod	Banglore	3457.23	5
104	John	Pune	7623.65	3
103	Julie	Nashik	5323.65	2
106	Apurva	Indore	6723.64	4

5 rows in set (0.12 sec)

mysql> create view emp\_view as select eno,ename,esal from emp;

Query OK, 0 rows affected (0.09 sec)

mysql> select \* from emp\_view;

eno	ename	esal
101	Sachin	5647.23
102	Vinod	3457.23

	104		John		7623.65	
	103		Julie		5323.65	
	106		Apurva		6723.64	

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

5 rows in set (0.03 sec)

Here view is created for eno,ename,esal

### 1.update in view

when we update virtual table then it will also update in original table

```
mysql> update emp_view set ename='ramesh' where eno=101;
```

Query OK, 1 row affected (0.08 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> select * from emp_view;
```

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

	eno		ename		esal	
--	-----	--	-------	--	------	--

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

	101		<b>ramesh</b>		5647.23	
--	-----	--	---------------	--	---------	--

	102		Vinod		3457.23	
--	-----	--	-------	--	---------	--

	104		John		7623.65	
--	-----	--	------	--	---------	--

	103		Julie		5323.65	
--	-----	--	-------	--	---------	--

	106		Apurva		6723.64	
--	-----	--	--------	--	---------	--

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

5 rows in set (0.00 sec)



```
mysql> select * from emp;
```

```
+-----+-----+-----+-----+-----+
| eno | ename | eaddress | esal | deptno |
+-----+-----+-----+-----+-----+
| 101 | ramesh | Mumbai | 5647.23 | 2 |
| 102 | Vinod | Bangalore | 3457.23 | 5 |
| 104 | John | Pune | 7623.65 | 3 |
| 103 | Julie | Nashik | 5323.65 | 2 |
| 106 | Apurva | Indore | 6723.64 | 4 |
+-----+-----+-----+-----+-----+
```

5 rows in set (0.00 sec)

## 2.Delete from view

```
mysql> delete from emp_view where eno=101;
```

Query OK, 1 row affected (0.40 sec)

```
mysql> select * from emp_view;
```

```
+-----+-----+-----+
| eno | ename | esal |
+-----+-----+-----+
| 102 | Vinod | 3457.23 |
| 104 | John | 7623.65 |
| 103 | Julie | 5323.65 |
| 106 | Apurva | 6723.64 |
+-----+-----+-----+
```

4 rows in set (0.00 sec)

```
mysql> select * from emp;
```

```
+-----+-----+-----+-----+-----+
| eno | ename | eaddress | esal | deptno |
+-----+-----+-----+-----+-----+
| 102 | Vinod | Bangalore | 3457.23 | 5 |
| 104 | John | Pune | 7623.65 | 3 |
| 103 | Julie | Nashik | 5323.65 | 2 |
| 106 | Apurva | Indore | 6723.64 | 4 |
+-----+-----+-----+-----+-----+
```

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

### 3.Insert in view

```
mysql> insert into emp_view values(107,'ajay',5643.77);
```

```
Query OK, 1 row affected (0.06 sec)
```

```
mysql> select * from emp_view;
```

```
+-----+-----+-----+
| eno | ename | esal |
+-----+-----+-----+
| 102 | Vinod | 3457.23 |
| 104 | John | 7623.65 |
| 103 | Julie | 5323.65 |
| 106 | Apurva | 6723.64 |
| 107 | ajay | 5643.77 |
+-----+-----+-----+
```

5 rows in set (0.00 sec)

```
mysql> select * from emp;
```

eno	ename	eaddress	esal	deptno
102	Vinod	Banglore	3457.23	5
104	John	Pune	7623.65	3
103	Julie	Nashik	5323.65	2
106	Apurva	Indore	6723.64	4
107	ajay	NULL	5643.77	NULL

5 rows in set (0.00 sec)

#### 4.update in view

```
mysql> update emp_view set ename='abc' where eno=102;
```

Query OK, 1 row affected (0.06 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> select * from emp_view;
```

eno	ename	esal
-----	-------	------

```
+-----+-----+-----+
| 102 | abc   | 3457.23 |
| 104 | John  | 7623.65 |
| 103 | Julie | 5323.65 |
| 106 | Apurva | 6723.64 |
| 107 | ajay  | 5643.77 |
+-----+-----+-----+

5 rows in set (0.00 sec)
```

## 6.drop view

```
mysql> drop view emp_view;
```

Query OK, 0 rows affected (0.00 sec)

```
mysql> select * from emp_view;
```

ERROR 1146 (42S02): Table 'student142.emp\_view' doesn't exist

- **INDEX**

### 1.Create index

```
mysql> create unique index emp_index on emp(eno);
```

Query OK, 0 rows affected (0.27 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> show index from emp;
```

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment
emp	0	emp_index	1	eno	A	5	NULL	NULL	YES	BTREE		
emp	1	eid	1	eno	A	5	NULL	NULL	YES	BTREE		
emp	1	eno	1	eno	A	5	NULL	NULL	YES	BTREE		

3 rows in set (0.05 sec)

## 2.Drop index

mysql> drop index emp\_index on emp;

Query OK, 0 rows affected (0.16 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> show index from emp;

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment
emp	1	eid	1	eno	A	5	NULL	NULL	YES	BTREE		
emp	1	eno	1	eno	A	5	NULL	NULL	YES	BTREE		

