

Experiment — 9

I . Create table of table name: EMPLOYEES and add 6 rows

Column Name	Data Type	Width	Attributes
Employee id	Character		
First Name	Character	30	
Last Name	Character	30	
DOB	Date		
Salary	Number	25	
Department id	Character	10	

```
create database exp9;
```

```
use exp9;
```

```
create table employees ( employee_id char(10) primary key, first_name char(30) not null, last_name char(30) not null, dob date, salary decimal(25,2) not null, department_id char(10));
```

```
insert into employees (employee_id, first_name, last_name, dob, salary, department_id) values('E001 'John', 'Doe', '1985-04-12', 75000.00, 'D001 'Jane', 'Smith', '19901 1-23', 85000.00, D002'),('E003', 'Michael', 'Johnson', '1983-06-15', 90000.00,
```

```
'D001'),('E004', 'Emily', 'Davis', '1995-09-30', 72000.00, 'D003'),('E005', 'David', 'Brown',
'1988-02-10', 88000.00, 'D002'),('E006', 'Sarah', 'Wilson', '1992-12-05', 95000.00, 'D004');
```

```
mysql> select * from employees;
+-----+-----+-----+-----+-----+-----+
| employee_id | first_name | last_name | dob          | salary | department_id |
+-----+-----+-----+-----+-----+-----+
| E001        | John      | Doe       | 1985-04-12   | 75000.00 | D001          |
| E002        | Jane      | Smith     | 1990-11-23   | 85000.00 | D002          |
| E003        | Michael   | Johnson   | 1983-06-15   | 90000.00 | D001          |
| E004        | Emily     | Davis     | 1995-09-30   | 72000.00 | D003          |
| E005        | David     | Brown     | 1988-02-10   | 88000.00 | D002          |
| E006        | Sarah     | Wilson    | 1992-12-05   | 95000.00 | D004          |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

2. Execute the following view related queries:

1 . Create View of name emp_view and the column would be Employee_id, Last_Name, salary and department id only.

```
create view emp_view as select employee_id,
last_name, salary, department_id
from employees;
```

Query OK, 6 rows affected (0.01 sec)

2. Insert values into view(remove the NOT NULL constraint and then insert values).

```
insert into employees (employee_id, first_name, last_name, dob, salary, department_id)
values ('E007', 'Unknown', 'Taylor', '2000-01-01 null', 'D003');
```

```
mysql> select * from employees;
+-----+-----+-----+-----+-----+-----+
| employee_id | first_name | last_name | dob          | salary | department_id |
+-----+-----+-----+-----+-----+-----+
| E001        | John      | Doe       | 1985-04-12   | 75000.00 | D001          |
| E002        | Jane      | Smith     | 1990-11-23   | 85000.00 | D002          |
| E003        | Michael   | Johnson   | 1983-06-15   | 90000.00 | D001          |
| E004        | Emily     | Davis     | 1995-09-30   | 72000.00 | D003          |
| E005        | David     | Brown     | 1988-02-10   | 88000.00 | D002          |
| E006        | Sarah     | Wilson    | 1992-12-05   | 95000.00 | D004          |
| E007        | Unknown   | Taylor    | 2000-01-01   | NULL    | D003          |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

3. Modify, delete and drop operations are performed on view.

```
update emp_view set salary = 80000 where employee_id =  
'E001'; delete from emp_view where employee_id = 'E007'; drop  
view emp_view;
```

employee_id	first_name	last_name	dob	salary	department_id
E001	John	Doe	1985-04-12	80000.00	D001
E002	Jane	Smith	1990-11-23	85000.00	D002
E003	Michael	Johnson	1983-06-15	90000.00	D001
E004	Emily	Davis	1995-09-30	72000.00	D003
E005	David	Brown	1988-02-10	88000.00	D002
E006	Sarah	Wilson	1992-12-05	95000.00	D004

6 rows in set (0.00 sec)

4. Creates a view named salary_view. The view shows the employees in department 20 and their annual salary.

```
create view salary_view as select employee id, last name,  
salary* 12 as annual_salary from employees where  
department_id = 'D020';
```