Experiment – 9

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

Column Name	Data Type	Width	Attributes
Employee_id	Character	10	PK
First_Name	Character	30	NN
Last_Name	Character	30	NN
DOB	Date		
Salary	Number	25	NN
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'),('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');

```
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, 0 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';