# Experiment 11: Views in SQL

**AIM:** Demonstrate View in SQL

1. Create Table / May be you can use the same Table as that of **Expt No 4**

SET FOREIGN_KEY_CHECKS=0;

# creating base table

CREATE TABLE EMPLOYEE(

       Fname      VARCHAR(10)  NOT NULL,

       Minit     CHAR,

       Lname     VARCHAR(20)    NOT NULL,

       Ssn     CHAR(9)     NOT NULL,

       Bdate    DATE,

       Address    VARCHAR(30),

       Sex     CHAR(1),

       Salary    DECIMAL(5),

       Super_ssn   CHAR(9),

       Dno     INT     NOT NULL,

     PRIMARY KEY  (Ssn));

2. Populate table/ May be you can use same data of **Expt no 4**

INSERT INTO EMPLOYEE VALUES
('John','B','Smith',123456789,'1965-01-09','731 Fondren, Houston TX','M',30000,333445555,5),
('Franklin','T','Wong',333445555,'1965-12-08','638 Voss, Houston TX','M',40000,888665555,5),
('Alicia','J','Zelaya',999887777,'1968-01-19','3321 Castle, Spring TX','F',25000,987654321,4),
('Jennifer','S','Wallace',987654321,'1941-06-20','291 Berry, Bellaire TX','F',43000,888665555,4),
('Ramesh','K','Narayan',666884444,'1962-09-15','975 Fire Oak,  TX','M',38000,333445555,5),
('Joyce','A','English',453453453,'1972-07-31','5631 Rice, Houston TX','F',25000,333445555,5),
('Ahmad','V','Jabbar',987987987,'1969-03-29','980 Dallas, Houston TX','M',25000,987654321,4),
('James','E','Borg',888665555,'1937-11-10','450 Stone, Houston TX','M',55000,null,1);

3. Create View
#View-1.  create view Emp( Ssn, Fname, Salary, Dno)

 CREATE VIEW Emp AS SELECT Ssn,Fname,Salary, Dno FROM EMPLOYEE;

4. Check data in view Emp

select * from Emp;

5. Create another View

#View-2 create view Emp_sal( Ssn, Fname, Salary) where salary > 25000

CREATE VIEW Emp_sal AS SELECT Ssn,Fname,Salary FROM EMPLOYEE where salary > 25000;

6. Check data in view Emp-Sal

 select * from Emp_sal;

7. Search view

# select employee details of Fname = John

select * from Emp where Fname = 'John';

8.  UODATE Emp View

# update view Emp , change Dno to 1 for Emp name =john

update Emp SET Dno = 1 where Fname = 'John';

9. Check the updated data in view

select * from Emp where  Fname = ' John';

10. Check if the source table is updated or not

select * from EMPLOYEE where  Fname = ' John';

# Note base table got changed..!

11. Update Base table, and check if View is updated or not

# Change DNo of John to 4

update EMPLOYEE SET Dno = 4 where Fname = 'John';

12. Check if View got  changes

select * from Emp where  Fname = ' John';

# Note view got changed..!


13.  Delete View

Drop view Emp_sal;


14.  Drop Base Table

Drop table EMPLOYEE;


15. Verify deletion of base table will automatically delete view

SHOW CREATE VIEW Emp_sal;