

18CSC303J/ DBMS

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Exp-6: Views

Aim:- To study the various SQL view operations on the database.

Commands:-

1. **CREATE VIEW** command is used to define a view.
2. **INSERT** command is used to insert a new row into the view.
3. **DELETE** command is used to delete a row from the view.
4. **UPDATE** command is used to change a value in a tuple without changing all values in the tuple.

DROP command is used to drop the table

Procedure:-

Creation Of Table

```
-----  
Sql> Create Table  
Employee (  
Employee_Name varchar  
2(10),  
Employee_No number(  
8), Dept_Name  
Varchar2(10),  
Dept_No Number  
(5), Date_Of_Join Date); Table  
Created.
```

Table Description

```
-----  
Sql> Desc  
Employee;  
Name Null?  
Type  
-----  
Employee_Name  
Varchar2(10)  
Employee_No  
Number(8)  
Dept_Name  
Varchar2(10)  
Dept_No Number(5)  
Date_Of_Join Date
```

Syntax For Creation Of View

```
Sql> Create <View> <View Name> As Select
<Column_Name_1>, <Column_Name_2> From <Table
Name>; Creation Of View
```

```
Sql> Create View Empview As Select
Employee_Name, Employee_No, Dept_Name, Dept_No, Date_Of_J
oin From Employee;
View Created.
Description Of View
```

```
Sql> Desc
Empview;
Name Null?
Type
```

```
Employee_Name
Varchar2(10)
Employee_No
Number(8)
Dept_Name
Varchar2(10)
Dept_No Number(5)
```

Display View:

```
Sql> Select * From Empview;
Employee_N Employee_No Dept_Name Dept_No
```

```
Ravi 124 Ece 89
Vijay 345 Cse 21
Raj 98 It 22
Giri 100
```

```
Cse 67
```

Insertion

Into View

Insert Statement:

Syntax:

```
Sql> Insert Into <View_Name> (Column
Name1,.....) Values(Value1,...);
Sql> Insert Into Empview Values ('Sri', 120, 'Cse', 67, '16-
Nov-1981'); 1 Row Created.
Sql> Select * From Empview;
Employee_N Employee_No Dept_Name Dept_No
```

```
Ravi 124 Ece 89
Vijay 345 Cse 21
Raj 98 It 22
Giri 100 Cse 67
Sri 120 Cse 67
Sql> Select * From Employee;
```

```
Employee_N Employee_No Dept_Name Dept_No Date_Of_J
Ravi 124 Ece 89 15-Jun-05
Vijay 345 Cse 21 21-Jun-06
Raj 98 It 22 30-Sep-06
Giri 100 Cse 67 14-Nov-81
Sri 120 Cse 67
16-Nov-81
```

Deletion Of

View:

Delete Statement:

Syntax:

```
Sql> Delete <View_Nmac> Where <Column Nmac>
='Value'; Sql> Delete From Empview Where
Employee_Name='Sri';
1 Row Deleted.
Sql> Select * From Empview;
Employee_N Employee_No Dept_Name Dept_No
```

```
Ravi 124 Ece 89
Vijay 345 Cse 21
Raj 98 It 22
Giri 100
Cse 67
```

Update Stateme nt:

Syntax:

```
Aql> Update <View_Name> Set< Column Name> = <Column Name>
+<View> Where <Columnname>=Value;
Sql> Update Empkaviview Set
```

```
Employee_Name='Kavi' Where
Employee_Name='Ravi';
1 Row Updated.
Sql> Select * From Empkaviview;
Employee_N Employee_No Dept_Name Dept_No
```

```
-----
Kavi 124 Ece 89
Vijay 345 Cse 21
Raj 98 It 22
Giri
100
Cse 67
Drop
A
View:
Syntax:
Sql> Drop View
<View_Name>
Example
Sql> Drop View Empview;
```

```
View Dropped
Create A View With Selected Fields:
Syntax:
Sql> Create [Or Replace] View <View Name> As Select
<Column Name1>.....From <Table Name>;
Example-2:
Sql> Create Or Replace View Emp_View1 As Select Empno,
Ename, Salary From Emp;
```

```
Sql> Select * From
Emp_View1; Example-
3:
Sql> Create Or Replace View Emp_View2 As Select * From
Emp Where Deptno=10;
Sql> Select * From
Emp_View2; Note:
```

- Replace Is The Keyboard To Avoid The Error "Ora_0095:Name Is Already Used By An Existing Object".
- Changing The Column(S) Name M The View During As Select Statement:

Example-1:

```
Sql> Create Or Replace View Emp_Totsal(Eid,Name,Sal) As
Select Empno,Ename,Salary From Emp;
View Created.
Empno Ename Salary
```

```
-----
7369 Smith 1000
7499 Mark 1050
7565 Will 1500
7678 John 1800
7578 Tom 1500
7548 Turner 1500
6 Rows
Selecte
d.
View
Created.
Empno Ename Salary Mgrno Deptno
```

```
-----
7578 Tom 1500 7298 10
7548 Turner 1500 7298 10
View Created.
Sql> Select * From
Emp_Totsal; Type-2:
Sql> Create Or Replace View Emp_Totsal As Select Empno
"Eid",Ename "Name",Salary "Sal" From Emp;
Sql> Select * From
Emp_Totsal; Example
For Join View:
Type-3:
Sql> Create Or Replace View Dept_Emp As Select A.Empno
"Eid",A.Ename "Empname",A.Deptno "Dno",B.Dnam
E "D_Name",B.Loc "D_Loc" From Emp A,Deptm
B Where A.Deptno=B.Deptno;
Sql> Select * From
Dept_Emp; Eid Name
Sal
```

```
-----
7369 Smith 1000
7499 Mark 1050
7565 Will 1500
7678 John 1800
7578 Tom 1500
7548 Turner 1500
6 Rows
```

Selecte
d.
View
Created.
Eid Name Sal

7369 Smith 1000
7499 Mark 1050
7565 Will 1500
7678 John 1800
7578 Tom 1500
7548 Turner 1500

6 Rows
Selecte
d.
View
Created.
Eid Empname Dno D_Name D_Loc

7578 Tom 10 Account New York
7548 Turner 10 Account New York
7369 Smith 20 Sales Chicago
7678 John 20 Sales Chicago
7499 Mark 30 Research Zurich
7565 WILL 30 RESEARCH ZURICH

RESULT:

Thus the SQL views have been executed successfully.

Execution:-

SQL*Plus: Release 11.2.0.4.0 Production on Wed Mar 9 15:00:08 2022

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Enter user-name: **RA1911003010367/RA1911003010367@f1-drjebakumar.co86hfjmfjkx.us-west-2.rds.amazonaws.com:1521/F1**

Connected to:

Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production

SQL> **spool exp6.lst**

SQL> **CREATE TABLE Employee(Employee_Name varchar2(20), Employee_No number(8), Dept_Name varchar2(20), Dept_No number(5), Date_Of_Join Date);**

Table created.

SQL> Desc

Usage: DESCRIBE [schema.]object[@db_link]

SQL> desc

Usage: DESCRIBE [schema.]object[@db_link]

SQL> **desc Employee;**

Name	Null?	Type
EMPLOYEE_NAME		VARCHAR2(20)
EMPLOYEE_NO		NUMBER(8)
DEPT_NAME		VARCHAR2(20)
DEPT_NO		NUMBER(5)
DATE_OF_JOIN		DATE

SQL> **insert into Employee values('Kim', 111, 'CSE', 1, '12-DEC-95');**

1 row created.

SQL> insert into Employee values('Min', 222, 'MECHANICAL', 2, '9-MAR-93');

1 row created.

SQL> insert into Employee values('Jung', 333, 'ECE', 3, '18-FEB-94');

1 row created.

SQL> insert into Employee values('Park', 444, 'EEE', 4, '13-OCT-95');

1 row created.

SQL> insert into Employee values('Jeon', 555, 'AEROSPACE', 5, '1-SEPT-97');

insert into Employee values('Jeon', 555, 'AEROSPACE', 5, '1-SEPT-97')

*

ERROR at line 1:

ORA-01861: literal does not match format string

SQL> insert into Employee values('Jeon', 555, 'AEROSPACE', 5, '4-SEPT-97');

insert into Employee values('Jeon', 555, 'AEROSPACE', 5, '4-SEPT-97')

*

ERROR at line 1:

ORA-01861: literal does not match format string

SQL> insert into Employee values('Jeon', 555, 'AEROSPACE', 5, '1-SEPTEMBER-97');

1 row created.

SQL> CREATE view Empviews as Select Employee_Name, Employee_No, Dept_Name, Dept_No from Employee;

View created.

SQL> SELECT * FROM Empviews;

EMPLOYEE_NAME	EMPLOYEE_NO	DEPT_NAME	DEPT_NO
Kim	111	CSE	1
Min	222	MECHANICAL	2
Jung	333	ECE	3
Park	444	EEE	4
Jeon	555	AEROSPACE	5

SQL> SELECT * FROM Employee;

SELECT * FROM Employee

*

ERROR at line 1:

ORA-00942: table or view does not exist

SQL> **SELECT * FROM Employee;**

EMPLOYEE_NAME	EMPLOYEE_NO	DEPT_NAME	DEPT_NO	DATE_OF_J
Kim	111	CSE	1	12-DEC-95
Min	222	MECHANICAL	2	09-MAR-93
Jung	333	ECE	3	18-FEB-94
Park	444	EEE	4	13-OCT-95
Jeon	555	AEROSPACE	5	01-SEP-97

SQL> **insert into Empviews values('Manoban', 666, 'SW', 6);**

1 row created.

SQL> **SELECT * FROM Empviews;**

EMPLOYEE_NAME	EMPLOYEE_NO	DEPT_NAME	DEPT_NO
Kim	111	CSE	1
Min	222	MECHANICAL	2
Jung	333	ECE	3
Park	444	EEE	4
Jeon	555	AEROSPACE	5
Manoban	666	SW	6

6 rows selected.

SQL> **SELECT * FROM Employee;**

SELECT * FROM Employee

ERROR at line 1:

ORA-00942: table or view does not exist

SQL> **SELECT * FROM Employee;**

EMPLOYEE_NAME	EMPLOYEE_NO	DEPT_NAME	DEPT_NO	DATE_OF_J
Kim	111	CSE	1	12-DEC-95
Min	222	MECHANICAL	2	09-MAR-93
Jung	333	ECE	3	18-FEB-94
Park	444	EEE	4	13-OCT-95
Jeon	555	AEROSPACE	5	01-SEP-97
Manoban	666	SW	6	

6 rows selected.

SQL> **delete from Empviews where Employee_Name = 'Manobas';**

0 rows deleted.

SQL> delete from Empviews where Employee_Name = 'Manoban';

1 row deleted.

SQL> update Empviews set Employee_Name = 'Bieber' Where Employee_Name = 'Jung';

1 row updated.

SQL> SELECT * FROM Empviews;

EMPLOYEE_NAME	EMPLOYEE_NO	DEPT_NAME	DEPT_NO
Kim	111	CSE	1
Min	222	MECHANICAL	2
Bieber	333	ECE	3
Park	444	EEE	4
Jeon	555	AEROSPACE	5

SQL> SELECT * FROM Employee;

EMPLOYEE_NAME	EMPLOYEE_NO	DEPT_NAME	DEPT_NO	DATE_OF_J
Kim	111	CSE	1	12-DEC-95
Min	222	MECHANICAL	2	09-MAR-93
Bieber	333	ECE	3	18-FEB-94
Park	444	EEE	4	13-OCT-95
Jeon	555	AEROSPACE	5	01-SEP-97

SQL> DROP views Empviews;

DROP views Empviews

*

ERROR at line 1:

ORA-00950: invalid DROP option

SQL> DROP view Empviews;

View dropped.

SQL> CREATE view Eviews as Select Employee_Name, Employee_No, Dept_Name, Dept_No from Employee;

View created.

SQL> SELECT * FROM Eviews;

EMPLOYEE_NAME	EMPLOYEE_NO	DEPT_NAME	DEPT_NO
Kim	111	CSE	1
Min	222	MECHANICAL	2
Bieber	333	ECE	3
Park	444	EEE	4
Jeon	555	AEROSPACE	5

SQL>

E:\SRM Sem-all\Sem-6\Database Management\Lab\ORACLE CLIENT 11.2\instantclient_11_2\sqlplus.exe

SQL*Plus: Release 11.2.0.4.0 Production on Wed Mar 9 15:00:08 2022

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Enter user-name: RA1911003010367/RA1911003010367@f1-drjebakumar.co86hfjmfjkx.us-west-2.rds.amazonaws.com:1521/F1

Connected to:

Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production

SQL> spool exp6.lst

E:\SRM Sem-all\Sem-6\Database Management\Lab\ORACLE CLIENT 11.2\instantclient_11_2\sqlplus.exe

SQL> CREATE TABLE Employee(Employee_Name varchar2(20), Employee_No number(8), Dept_Name varchar2(20), Dept_No number(5), Date_Of_Join Date);

Table created.

SQL> Desc

Usage: DESCRIBE [schema.]object[@db_link]

SQL> desc

Usage: DESCRIBE [schema.]object[@db_link]

SQL> desc Employee;

Name	Null?	Type
EMPLOYEE_NAME		VARCHAR2(20)
EMPLOYEE_NO		NUMBER(8)
DEPT_NAME		VARCHAR2(20)
DEPT_NO		NUMBER(5)
DATE_OF_JOIN		DATE

SQL> insert into Employee values('Kim', 111, 'CSE', 1, '12-DEC-95');

1 row created.

SQL> insert into Employee values('Min', 222, 'MECHANICAL', 2, '9-MAR-93');

1 row created.

SQL> insert into Employee values('Jung', 333, 'ECE', 3, '18-FEB-94');

1 row created.

SQL> insert into Employee values('Park', 444, 'EEE', 4, '13-OCT-95');

1 row created.

SQL> insert into Employee values('Jeon', 555, 'AEROSPACE', 5, '1-SEPT-97');

insert into Employee values('Jeon', 555, 'AEROSPACE', 5, '1-SEPT-97')

ERROR at line 1:

ORA-01861: literal does not match format string


```
insert into Employee values('Jeon', 555, 'AEROSPACE', 5, '4-SEPT-97')
```

```
ERROR at line 1:
```

```
ORA-01861: literal does not match format string
```

```
SQL> insert into Employee values('Jeon', 555, 'AEROSPACE', 5, '1-SEPTEMBER-97');
```

```
1 row created.
```

```
SQL> CREATE view Empviews as Select Employee_Name, Employee_No, Dept_Name, Dept_No from Employee;
```

```
View created.
```

```
SQL> SELECT * FROM Empviews;
```

EMPLOYEE_NAME	EMPLOYEE_NO	DEPT_NAME	DEPT_NO
Kim	111	CSE	1
Min	222	MECHANICAL	2
Jung	333	ECE	3
Park	444	EEE	4
Jeon	555	AEROSPACE	5

```
SQL> SELECT * FROM Empemployee;
```

```
SELECT * FROM Empemployee
```

```
ERROR at line 1:
```

```
ORA-00942: table or view does not exist
```

```
SQL> SELECT * FROM Employee;
```

EMPLOYEE_NAME	EMPLOYEE_NO	DEPT_NAME	DEPT_NO	DATE_OF_J
Kim	111	CSE	1	12-DEC-95
Min	222	MECHANICAL	2	09-MAR-93
Jung	333	ECE	3	18-FEB-94
Park	444	EEE	4	13-OCT-95
Jeon	555	AEROSPACE	5	01-SEP-97

```
SQL> insert into Empviews values('Manoban', 666, 'SW', 6);
```

```
1 row created.
```

```
SQL> SELECT * FROM Empviews;
```

EMPLOYEE_NAME	EMPLOYEE_NO	DEPT_NAME	DEPT_NO
Kim	111	CSE	1
Min	222	MECHANICAL	2
Jung	333	ECE	3
Park	444	EEE	4
Jeon	555	AEROSPACE	5
Manoban	666	SW	6

```
6 rows selected.
```

```
SQL> SELECT * FROM Empemployee;
```

```
SELECT * FROM Empemployee
```

```
ERROR at line 1:
```

```
ORA-00942: table or view does not exist
```

```
SQL> SELECT * FROM Employee;
```

EMPLOYEE_NAME	EMPLOYEE_NO	DEPT_NAME	DEPT_NO	DATE_OF_J
Kim	111	CSE	1	12-DEC-95
Min	222	MECHANICAL	2	09-MAR-93
Jung	333	ECE	3	18-FEB-94
Park	444	EEE	4	13-OCT-95
Jeon	555	AEROSPACE	5	01-SEP-97
Manoban	666	SW	6	

```
6 rows selected.
```

```
SQL> delete from Empviews where Employee_Name = 'Manobas';
```

```
0 rows deleted.
```

```
SQL> delete from Empviews where Employee_Name = 'Manoban';

1 row deleted.

SQL> update Empviews set Employee_Name = 'Bieber' Where Employee_Name = 'Jung';

1 row updated.

SQL> SELECT * FROM Empviews;

EMPLOYEE_NAME      EMPLOYEE_NO DEPT_NAME      DEPT_NO
-----
Kim                111 CSE                1
Min                222 MECHANICAL     2
Bieber            333 ECE              3
Park              444 EEE             4
Jeon              555 AEROSPACE       5

SQL> SELECT * FROM Employee;

EMPLOYEE_NAME      EMPLOYEE_NO DEPT_NAME      DEPT_NO DATE_OF_J
-----
Kim                111 CSE                1 12-DEC-95
Min                222 MECHANICAL     2 09-MAR-93
Bieber            333 ECE              3 18-FEB-94
Park              444 EEE             4 13-OCT-95
Jeon              555 AEROSPACE       5 01-SEP-97

SQL> DROP views Empviews;
DROP views Empviews
*
ERROR at line 1:
ORA-00950: invalid DROP option

SQL> DROP view Empviews;

View dropped.
```

```
SQL> CREATE view EvIEWS as Select Employee_Name, Employee_No, Dept_Name, Dept_No from Employee;

View created.

SQL> SELECT * FROM EvIEWS;

EMPLOYEE_NAME      EMPLOYEE_NO DEPT_NAME      DEPT_NO
-----
Kim                111 CSE                1
Min                222 MECHANICAL     2
Bieber            333 ECE              3
Park              444 EEE             4
Jeon              555 AEROSPACE       5

SQL> 
```

```
exp6.lst - Notepad
File Edit View
SQL> CREATE TABLE Employee(Employee_Name varchar2(20), Employee_No number(8),
Dept_Name varchar2(20), Dept_No number(5), Date_Of_Join Date);

Table created.

SQL> Desc
Usage: DESCRIBE [schema.]object[@db_link]
SQL> desc
Usage: DESCRIBE [schema.]object[@db_link]
SQL> desc Employee;
Name Null? Type
-----
EMPLOYEE_NAME VARCHAR2(20)
EMPLOYEE_NO NUMBER(8)
DEPT_NAME VARCHAR2(20)
DEPT_NO NUMBER(5)
DATE_OF_JOIN DATE

SQL> insert into Employee values('Kim', 111, 'CSE', 1, '12-DEC-95');
1 row created.

SQL> insert into Employee values('Min', 222, 'MECHANICAL', 2, '9-MAR-93');
1 row created.

SQL> insert into Employee values('Jung', 333, 'ECE', 3, '18-FEB-94');
1 row created.

SQL> insert into Employee values('Park', 444, 'EEE', 4, '13-OCT-95');
1 row created.

SQL> insert into Employee values('Jeon', 555, 'AEROSPACE', 5, '1-SEPT-97');
insert into Employee values('Jeon', 555, 'AEROSPACE', 5, '1-SEPT-97')
*

exp6.lst - Notepad
File Edit View
SQL> insert into Employee values('Jeon', 555, 'AEROSPACE', 5, '1-SEPT-97');
insert into Employee values('Jeon', 555, 'AEROSPACE', 5, '1-SEPT-97')
*

ERROR at line 1:
ORA-01861: literal does not match format string

SQL> insert into Employee values('Jeon', 555, 'AEROSPACE', 5, '4-SEPT-97');
insert into Employee values('Jeon', 555, 'AEROSPACE', 5, '4-SEPT-97')
*

ERROR at line 1:
ORA-01861: literal does not match format string

SQL> insert into Employee values('Jeon', 555, 'AEROSPACE', 5, '1-SEPTEMBER-97');
1 row created.

SQL> CREATE view Empviews as Select Employee_Name, Employee_No, Dept_Name,
Dept_No from Employee;

View created.

SQL> SELECT * FROM Empviews;

EMPLOYEE_NAME EMPLOYEE_NO DEPT_NAME DEPT_NO
-----
Kim 111 CSE 1
Min 222 MECHANICAL 2
Jung 333 ECE 3
Park 444 EEE 4
Jeon 555 AEROSPACE 5

SQL> SELECT * FROM Employee;
SELECT * FROM Employee
*

ERROR at line 1:
ORA-00942: table or view does not exist
```

```
exp6.lst - Notepad
File Edit View

SQL> SELECT * FROM Employee;

EMPLOYEE_NAME      EMPLOYEE_NO DEPT_NAME      DEPT_NO DATE_OF_J
-----
Kim                111 CSE                1 12-DEC-95
Min                222 MECHANICAL      2 09-MAR-93
Jung               333 ECE              3 18-FEB-94
Park               444 EEE              4 13-OCT-95
Jeon               555 AEROSPACE        5 01-SEP-97

SQL> insert into Empviews values('Manoban', 666, 'SW', 6);

1 row created.

SQL> SELECT * FROM Empviews;

EMPLOYEE_NAME      EMPLOYEE_NO DEPT_NAME      DEPT_NO
-----
Kim                111 CSE                1
Min                222 MECHANICAL      2
Jung               333 ECE              3
Park               444 EEE              4
Jeon               555 AEROSPACE        5
Manoban            666 SW                6

6 rows selected.

SQL> SELECT * FROM Empmployee;
SELECT * FROM Employee
*
ERROR at line 1:
ORA-00942: table or view does not exist
```

```
exp6.lst - Notepad
File Edit View

SQL> SELECT * FROM Employee;

EMPLOYEE_NAME      EMPLOYEE_NO DEPT_NAME      DEPT_NO DATE_OF_J
-----
Kim                111 CSE                1 12-DEC-95
Min                222 MECHANICAL      2 09-MAR-93
Jung               333 ECE              3 18-FEB-94
Park               444 EEE              4 13-OCT-95
Jeon               555 AEROSPACE        5 01-SEP-97
Manoban            666 SW                6

6 rows selected.

SQL> delete from Empviews where Employee_Name = 'Manobas';

0 rows deleted.

SQL> delete from Empviews where Employee_Name = 'Manoban';

1 row deleted.

SQL> update Empviews set Employee_Name = 'Bieber' Where Employee_Name = 'Jung';

1 row updated.

SQL> SELECT * FROM Empviews;

EMPLOYEE_NAME      EMPLOYEE_NO DEPT_NAME      DEPT_NO
-----
Kim                111 CSE                1
Min                222 MECHANICAL      2
Bieber             333 ECE              3
Park               444 EEE              4
Jeon               555 AEROSPACE        5
```

```
exp6.lst - Notepad
File Edit View

SQL> SELECT * FROM Employee;

EMPLOYEE_NAME      EMPLOYEE_NO DEPT_NAME      DEPT_NO DATE_OF_J
-----
Kim                111 CSE                1 12-DEC-95
Min                222 MECHANICAL      2 09-MAR-93
Bieber            333 ECE                3 18-FEB-94
Park              444 EEE                4 13-OCT-95
Jeon              555 AEROSPACE        5 01-SEP-97

SQL> DROP views Empviews;
DROP views Empviews
*
ERROR at line 1:
ORA-00950: invalid DROP option

SQL> DROP view Empviews;

View dropped.

SQL> CREATE view Eviews as Select Employee_Name, Employee_No, Dept_Name, Dept_No
from Employee;

View created.

SQL> SELECT * FROM Eviews;

EMPLOYEE_NAME      EMPLOYEE_NO DEPT_NAME      DEPT_NO
-----
Kim                111 CSE                1
Min                222 MECHANICAL      2
Bieber            333 ECE                3
Park              444 EEE                4
Jeon              555 AEROSPACE        5

SQL> spool off
```

RESULT:

Thus the SQL views have been executed successfully.