
Exercise 5: view, sequence, synonym, and index

1. Create a view `emp_desg` for the employee table with the columns `empname`, `designation`, and `depname`.

Command:

```
create view emp_desg as
select empname, designation, depname
from employee, department
where employee.depno = department.depno;
```

Answer:

View created.

2. Display `empname`, `designation`, and `depname` for all employees using the view.

Command:

```
select * from emp_desg;
```

Answer (Table Output):

EMPNAME	DESIGNATION	DEPNAME
Siva	Manager	Accounts
Mani	Salesman	Sales
Raju	Clerk	Sales
Babu	Clerk	Purchase
Ram	Salesman	Production
Velu	Programmer	Software
Ravi	Accountant	Accounts
Balan	Manager	Production
Mahesh	Officer	Purchase
Kumar	Analyst	Software
Dinesh	Analyst	Sales

3. Create a sequence for the column `empno` on the `employee` table.

Command:

```
create sequence emp_seq  
start with 11  
increment by 1  
maxvalue 13  
nocycle;
```

Answer:

Sequence created.

4. Insert values for the column `empno` using the sequence.

Command:

```
insert into employee values (emp_seq.nextval, 'Rahul', 'Salesman', '15-MAY-  
1995', 7500, 5, 9111222333, 'E');  
  
insert into employee values (emp_seq.nextval, 'Prasad', 'Programmer', '20-  
JUN-1997', 12000, 4, 9223344550, 'A');  
  
insert into employee values (emp_seq.nextval, 'Dinesh', 'Analyst', '25-MAR-  
1993', 7000, 1, 9102030405, 'D');
```

Answer:

```
1 row created.  
1 row created.  
1 row created.
```

5. Create an alias name (synonym) for the `employee` table called `s_emp`.

Command:

```
create synonym s_emp for employee;
```

Answer:

Synonym created.

6. Display all columns of the `employee` table using the synonym.

Command:

```
select * from s_emp;
```

Answer (Table Output):

empno	empname	designation	datejoin	salary	depno	phoneno	g
4	Babu	Clerk	04-JAN-95	5000.5	2	NULL	E
5	Ram	Salesman	08-DEC-00	3000.25	3	NULL	E
6	Velu	Programmer	24-FEB-02	10000.5	6	NULL	F
7	Ravi	Accountant	12-SEP-91	8000.25	5	NULL	G
8	Balan	Manager	07-JUN-93	12000.75	3	9111222333	G
9	Mahesh	Officer	18-MAR-97	10000.5	2	NULL	A
10	Kumar	Analyst	15-JAN-95	14500	6	NULL	C
12	Dinesh	Analyst	25-MAR-93	7000	1	9102030405	D
13	Rahul	Salesman	15-MAY-95	7500	5	9111222333	E
11	Prasad	Programmer	20-JUN-97	12000	4	9223344550	A

7. Update the values for the column `phoneno` in the `employee` table using the synonym.

Command:

```
update s_emp set phoneno = 8916862539 where empname = 'Balan';
```

Answer:

```
1 row updated.
```

8. Create an index on the `employee` table named `isalary` with fields `empno` and `salary`.

Command:

```
create index isalary on employee(empno, salary);
```

Answer:

```
Index created.
```
