

Exp - 8 Set Operators & Views

Aim : To perform manipulate records of table using set operations & views in SQL.

Set Operations

Operations

Functions

Union

Returns all distinct rows selected by either query

Union all

Returns all rows selected by either query including duplicated

Intersect

Returns all rows that are common to both queries

Minus

Returns all distinct rows selected only by the first query and not by the second.

Q1} Create a view emp10 that contains empno, ename, job of employees who work in dept 10. Also describe structure of view.

Create view emp10 as

select empno, ename, job from emp

where deptno = 10;

desc ~~emp10~~ emp10;

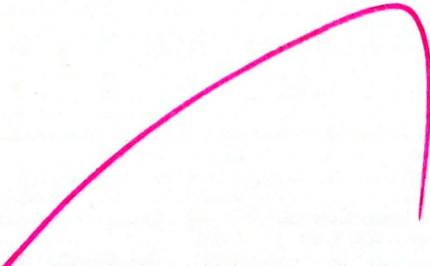
1} view created.

Name	NULL?	TYPE
EMPNO		NUMBER(4)
ENAME		VARCHAR2(10)
JOB		VARCHAR2(15)

2} View created.

~~not found deleted~~

EMPLOYEE_NUM	EMPLOYEE	SALARY
7521	Ward	1250
7654	Martin	1250
7698	Blake	2850
7844	Turner	1500
7900	James	950



Q2} Create a view with column aliases empv30 that contains empno, ename, sal of employees who work in dept 30. Also displays the contents of view.
Create or replace view empv30 as select e.empno, e.ename, e.sal from emp e where e.deptno = 30;
select * from empv30;

Q3} Update view empv10 by increasing 10% salary of emp who work as 'CLERK'. Also confirm modifications in emp table.

Update emp set sal = sal + 0.10 * sal
where job = 'CLERK';

select empno, ename, job, sal from empv10;

Q4} Modify the view empv10 which contains data empno, ename, job, sal. Add an alias for each column name

Create or replace view empv10

(employee-no, employee, job, salary) as

select empno, ename, job, ^{e.sal}sal from emp e
where e.deptno = 10;

Q5} Using emp table, create a view pay which contains ename, monthly-sal, annual-sal, deptno.

Create view pay as select ename, ^{annual-sal/12}monthly-sal, annual-sal

4} View created

Name

Null?

Type

EMPLOYEE_NO

NUMBER(4)

EMPLOYEE

VARCHAR2(10)

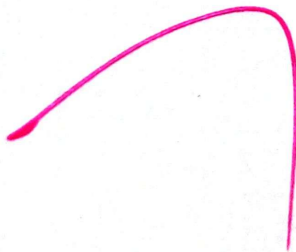
JOB

VARCHAR2(15)

SALARY

NUMBER(8)

5} View created



Q6} Create a view dept_stat which contains dept no.
dept name, min salary, max salary, total salary.

Create view dept_stat as select e.deptno, e.job, e.min(sal),
~~max(sal)~~, ~~sum(sal)~~ from emp e group by e.deptno; e
max(e.sal), sum(e.sal)

Q7} Execute the query and then delete the row
with deptno 20.

create or replace view empv20
as select * from emp where deptno = 20
with check option constraint empv20 - ck;

Q8} Create view empv10 with all details of emp who
work in deptno 10. Also ensure no DML oper-
-ion can be done with it.

create or replace view empv10
as select * from emp where deptno = 20
with read only

Q9} Delete view empv20.

~~DROP VIEW empv20;~~

✓

View Created

Name	NUZZ?	Type
EMPNO		Number(4)
ENAME		VarChar2(10)
JOB		VarChar2(15)
MGR		Number(4) Number(2)
HIREDATE		Date
SAL		Number(8)
COMM		Number(5)
DEPTNO		Number(5)

View created.

View dropped.