Assignment No. -> 6

1. **Create a view D_10EMP containing details of employees in department 10.**

```
SQL> create view D_10EMP as select * from emp where deptno = 10;

View created.
```

2. Create a view Dept_Summary containing Dname, MINSal, MAXSal, AVGSal.

```
SQL> create view Dept_Summary as select d.dname,min(e.sal) MinSal, max(e.sal) MaxSal, avg(e.sal) AvgSal
  2  from dept d join emp e on d.deptno = e.deptno group by d.dname;

View created.
```

3. Create a view Emp_Data which would validate entry of any INSERT/ UPDATE command so that Sal figure would be between 10000 to 20000 and MGR would have to be a valid Empno, and Deptno must exists on Dept table.

```
SQL> create view Emp_Data as select empno, ename, job, deptno, sal, mgr from emp_new
  2  where sal between 1000 and 2000 and mgr in ( select empno from emp_new )
  3  and deptno in ( select deptno from dept );

View created.
```

4. Create a view which restricts data access to a valid employee's own details on the Emp table and access time to office hours (09-17 and MON- SAT).

```
SQL> create view emp_details as select empno, ename, job from emp_new
  2  where ename= '&Empname' and to_char( sysdate, 'HH24' ) between 9 and 17
  3  AND to_char( sysdate, 'D' ) between 2 and 6 with check option;
Enter value for empname: KING
old   2: where ename= '&Empname' and to_char( sysdate, 'HH24' ) between 9 and 17
new   2: where ename= 'KING' and to_char( sysdate, 'HH24' ) between 9 and 17

View created.
```

5. Create a view EMPLOYEES from emp table which contains empno, ename, job, depy and validate the deptno. that must be in Dept table.

```
SQL> create view EMPLOYEES as select e.empno, e.ename, e.job, e.deptno
  2  from emp_new e where exists ( select 1 from dept d where e.deptno = d.deptno);

View created.
```

6. Create a READ only view EMP_READ from emp table which contains job, minsal, maxsal.

```
SQL> create view EMP_READ as select job, min(sal) minsal, max(sal) maxsal
  2  from emp_new group by job;

View created.
```

7. Table Client_master

Column_Name	Data type	Size	Attributes
Client_no	Varchar2	8	Primary Key
Name	Varchar2	20	Not Null
Address1	Varchar2	20	Not Null
Address2	Varchar2	20	
City	Varchar2	15	
Pincode	Varchar2	8	
Bal_due	Number	8,3	

A. Create a view vw_clent_master using Client_no,Name,Address1 and Bal_due.

```
SQL> create view vw_client_master as select Client_no, name, address1, bal_due from Client_Master
  2  ;

View created.
```

i. Insert at least 3 records to vw_client_master.

```
SQL> insert into vw_client_master values ( '001', 'ABC', 'A1', 1000);

1 row created.

SQL> insert into vw_client_master values ( '002', 'PQR', 'A2', 3000);

1 row created.

SQL> insert into vw_client_master values ( '003', 'XYZ', 'A3', 1500);

1 row created.
```

ii. Update a record to vw_client_master.

```
SQL> update vw_client_master set name = 'Raj' where client_no = '001';

1 row updated.
```

iii. Delete a record from vw_client_master.

```
SQL> delete from vw_client_master where client_no = '002';

1 row deleted.
```

iv. And check that the above operation if the base table is affected or not.

```
SQL> select * from Client_Master;

CLIENT_N NAME                 ADDRESS1             ADDRESS2             CITY            STATE           PINCODE     BAL_DUE
-------- -------------------- -------------------- -------------------- --------------- --------------- -------- ----------
001      Raj                  A1                                                                                    1000
003      XYZ                  A3                                                                                    1500
```

Therefore, we can conclude that the table is effected.

B. Create a view Vw_sales_det using Order_no,Order_date, Product_no, Qty_ordered, and order_status for all order which have already marked as ‘Backorder’ .(Using the tables sales_order,sales_order_details).

```
SQL> create view Vw_sales_det as select t1.Order_no, Order_date, Product_no, Qty_ordered,
  2  Order_status from Sales_Order t1 join Sales_order_details t2 on t1.Order_no = t2.Order_No;

View created.
```

i. Insert a record to vw_sales_det.

```
SQL> insert into Sales_Order values
  2  ('O19001', TO_DATE('12-Jan-96', 'DD-Mon-YY'), 'C001', 'S001', 'F', 'N', TO_DATE('20-Jan-96', 'DD-Mon-YY'), 'InProcess');

1 row created.

SQL> insert into Sales_order_details values
  2  ('O19001','P00001',4,4,525);

1 row created.
```

ii. Update the client_no for a particular order_no.

```
SQL> update Vw_sales_det set Qty_ordered = 10 where Order_no = 'O19001';

1 row updated.
```

iii. Delete a record.

```
SQL> delete from Vw_sales_det where Order_no = 'O19001';

1 row deleted.
```

iv. Remove the views from database.

```
SQL> drop view Vw_sales_det;

View dropped.
```