Ex.No.: 4		WORKING WITH CONSTRAINTS
Date:	16/08/2024	

1) Add a table-level PRIMARY KEY constraint to the EMP table on the ID column. The constraint should be named at creation. Name the constraint my emp id pk.

```
alter table EMP1 add constraint my_emp_id_pk PRIMARY KEY(ID);
```

2) Create a PRIMAY KEY constraint to the DEPT table using the ID colum. The constraint should be named at creation. Name the constraint my_dept_id_pk.

```
alter table DEPT add constraint my_dept_id_pk PRIMARY KEY(ID);
```

3) Add a column DEPT_ID to the EMP table. Add a foreign key reference on the EMP table that ensures that the employee is not assigned to nonexistent department. Name the constraint my emp dept id fk.

```
alter table emp
add DEPT_ID Numbe(10);
alter table emp
add constraint my_emp_dept_id_fk FOREIGN KEY(DEPT_ID) references dept(ID);
```

4) Modify the EMP table. Add a COMMISSION column of NUMBER data type, precision 2, scale 2. Add a constraint to the commission column that ensures that a commission value is greater than zero.

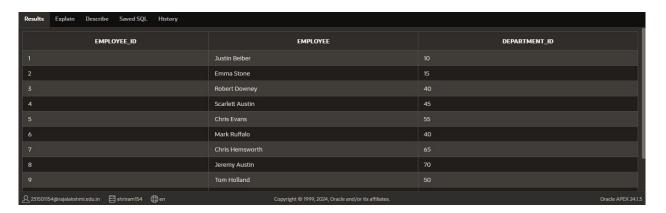
```
alter table emp add
COMMISSION Number(2,2);
alter table emp
add CONSTRAINT commission_gt_zero CHECK(COMMISSION > 0);
```

Ex.No.: 5	
Date: 23/08/2024	CREATING VIEWS

1) Create a view called EMPLOYEE_VU based on the employee numbers, employee names and department numbers from the EMPLOYEES table. Change the heading for the employee name to EMPLOYEE.

create view EMPLOYEE_VU as select employee_id , first_name || ' ' || last_name as "EMPLOYEE", department_id from employees;

2) Display the contents of the EMPLOYEES_VU view. select * from EMPLOYEE_VU;



3) Select the view name and text from the USER VIEWS data dictionary views.

select VIEW_NAME, TEXT from USER_VIEWS where VIEW_NAME = 'EMPLOYEE_VU';



4) Using your EMPLOYEES_VU view, enter a query to display all employees names and Department.

SELECT employee, department_id FROM EMPLOYEE_VU;



5) Create a view named DEPT50 that contains the employee number, employee last names and department numbers for all employees in department 50.Label the view columns EMPNO, EMPLOYEE and DEPTNO. Do not allow an employee to be reassigned to another department through the view.

```
CREATE VIEW DEPT50 AS

SELECT employee_id AS EMPNO, employee
   AS EMPLOYEE,
   department_id AS DEPTNO

FROM EMPLOYEE_VU

WHERE department_id = 50

WITH READ ONLY;
```



6) Display the structure and contents of the DEPT50 view.

Desc dept50;



7) Attempt to reassign Matos to department 80.

```
UPDATE EMPLOYEES
SET department_id = 80
WHERE first_name = 'Matos';
```

8) Create a view called SALARY_VU based on the employee last names, department names, salaries, and salary grades for all employees. Use the Employees, DEPARTMENTS and JOB_GRADE tables. Label the column Employee, Department, salary, and Grade respectively.

