

CREATING VIEWS

EXP NO: 11

DATE:

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.

QUERY:

create view employees_vu as select empid,lastname employee,deptnum from employee;

OUTPUT:

The screenshot displays the APEX SQL Workshop interface. At the top, the navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. A search bar and user profile 'agish raj arkham16' are also visible. The main area is titled 'SQL Commands' and shows the 'Schema' as 'WKSP_ARKHAM16'. The 'Language' is set to 'SQL' and 'Rows' to '10'. The SQL command entered is:

```
1 CREATE OR REPLACE VIEW employees_vu AS
2   SELECT empid, lastname employee, deptnum
3   FROM employee;
```

Below the command editor, the 'Results' tab is selected, showing the message 'View created.' and the execution time '0.05 seconds'.

2. Display the contents of the EMPLOYEES_VU view.

QUERY:

```
select * from employees_vu;
```

OUTPUT:

The screenshot shows the APEX SQL Workshop interface. The top navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. A search bar and user profile 'agish raj' are on the right. The 'SQL Commands' section shows the schema 'WKSP_ARKHAM16'. The query editor contains the following SQL command:

```
1 SELECT view_name, text
2 FROM user_views;
```

The 'Results' tab is active, displaying a table with two columns: 'VIEW_NAME' and 'TEXT'. The table contains one row for 'EMPLOYEES_VU' with the text 'SELECT empid, lastname employee, deptnum FROM employe'. Below the table, it states '1 rows returned in 0.03 seconds' and provides a 'Download' link.

VIEW_NAME	TEXT
EMPLOYEES_VU	SELECT empid, lastname employee, deptnum FROM employe

The screenshot shows the APEX SQL Workshop interface. The top navigation bar is the same as the previous screenshot. The 'SQL Commands' section shows the schema 'WKSP_ARKHAM16'. The query editor contains the following SQL command:

```
1 select * from employees_vu;
```

The 'Results' tab is active, displaying a table with three columns: 'EMPID', 'EMPLOYEE', and 'DEPTNUM'. The table contains three rows of data. Below the table, it states '3 rows returned in 0.01 seconds' and provides a 'Download' link.

EMPID	EMPLOYEE	DEPTNUM
50	davies	20
6	raj	10
70	raju	80

3.

Using your EMPLOYEES_VU view, enter a query to display all employees names and department.

QUERY:

select employe, deptnum from employees_vu;

OUTPUT:

The screenshot shows the APEX SQL Workshop interface. At the top, there's a navigation bar with 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. A search bar and user profile 'agish raj arkham16' are also present. Below this, the 'SQL Commands' section is active, showing a schema dropdown set to 'WKSP_ARKHAM16'. The query editor contains the following SQL code:

```
1 SELECT employe, deptnum
2 FROM employees_vu;
```

Below the query editor, the 'Results' tab is selected, displaying a table with two columns: 'EMPLOYEE' and 'DEPTNUM'. The table contains three rows of data:

EMPLOYEE	DEPTNUM
davies	20
raj	10
raju	80

At the bottom of the results section, it states '3 rows returned in 0.00 seconds' and provides a 'Download' link.

4. 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.

QUERY:

create view dept50 as select empid empno, lastname employee,deptnum deptno from employe where deptnum= 50 with check option constraint emp_dept_50;

OUTPUT:

The screenshot displays the Oracle APEX SQL Workshop interface. At the top, the navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. A search bar and user profile 'agish raj arkham16' are also visible. The main panel is titled 'SQL Commands' and shows the 'Schema' as 'WKSP_ARKHAM16'. Below this, the 'Language' is set to 'SQL' and 'Rows' are set to '10'. The SQL command entered is:

```
1 CREATE VIEW dept50 AS
2   SELECT empid empno, lastname employee,
3     deptnum deptno
4   FROM employe
5   WHERE deptnum = 50
6   WITH CHECK OPTION CONSTRAINT emp_dept_50;
```

The 'Run' button is highlighted in green. Below the command editor, the 'Results' tab is active, showing the message 'View created.' and the execution time '0.05 seconds'.

5.

5.Display the structure and contents of the DEPT50 view.

QUERY: Describe

dept50; select * from

dept50;

OUTPUT:

The screenshot shows the APEX SQL Workshop interface. The top navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. The user is logged in as 'agish raj arkhani6'. The 'SQL Commands' panel shows the command 'DESCRIBE dept50;'. The 'Results' panel is active, displaying the structure of the 'DEPT50' view. The table below shows the columns and their properties.

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DEPT50	EMPNO	NUMBER	22	-	-	-	✓	-	-
	EMPLOYEE	VARCHAR2	25	-	-	-	✓	-	-
	DEPTNO	NUMBER	22	-	-	-	✓	-	-

The screenshot shows the APEX SQL Workshop interface. The top navigation bar is the same as the previous screenshot. The 'SQL Commands' panel shows the command 'SELECT * FROM dept50;'. The 'Results' panel is active, displaying the message 'no data found'.

6. Attempt to reassign Matos to department 80.

QUERY:

update dept50 set deptno= 80 where employee= 'Matos';

OUTPUT:

The screenshot displays the APEX SQL Workshop interface. At the top, the navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. A search bar and user profile 'agish raj arkham16' are also visible. The main workspace is titled 'SQL Commands' and shows the schema 'WKSP_ARKHAM16'. The language is set to 'SQL' and the number of rows is '10'. The query being executed is:

```
1 update dept50 set deptno = 80
2 where employee = 'Matos';
3
```

Below the query editor, the 'Results' tab is active, showing the output: '0 row(s) updated.' and '0.07 seconds'.

7. 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.

QUERY:

create view salary_vu as select e.lastname 'Employee', d.deptname 'Department', e.salary 'Salary', j.grade 'Grade' from employee e ,department d ,grade j where e.deptnum=d.deptnum and e.salary between j.lowestsal and j.highestsal;

OUTPUT:

The screenshot displays the APEX SQL Workshop interface. At the top, the navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. A search bar and user profile 'agish raj arkham16' are also visible. The 'SQL Commands' section shows the schema 'WKSP_ARKHAM16'. Below this, the 'Language' is set to 'SQL' and 'Rows' to '10'. The SQL command entered is:

```
1 CREATE OR REPLACE VIEW salary_vu
2 AS
3 SELECT e.lastname "Employee",
4        d.deptname "Department",
5        e.salary "Salary",
6        j.grade "Grades"
7 FROM employee e,
8      department d,
9      grade j
10 WHERE e.deptnum = d.deptno
11 AND e.salary BETWEEN j.lowestsal and j.highestsal;
```

The 'Results' tab is active, showing the message 'View created.' and the execution time '0.03 seconds'.

Evaluation Procedure	Marks awarded
Query(5)	
Execution (5)	
Viva(5)	
Total (15)	
Faculty Signature	

RESULT: