DAY – 3 PRACTICE SESSION

1. CREATE AND INSERT TABLE :

```
CREATE TABLE EMPLOYEE (E_ID NUMBER(10) PRIMARY KEY,E_NAME VARCHAR(20),E_SALARY NUMBER(10),DNO NUMBER(10));
INSERT INTO EMPLOYEE VALUES (101,'VIJAY',10000,10);
INSERT INTO EMPLOYEE VALUES (102,'ARUN KUMAR',12000,10);
INSERT INTO EMPLOYEE VALUES (103,'DILIP KUMAR',15000,20);
INSERT INTO EMPLOYEE VALUES (104,'SUTHARSAN',20000,20);
INSERT INTO EMPLOYEE VALUES (105,'DHANUSH',18000,30);
INSERT INTO EMPLOYEE VALUES (106,'BHARATH',22000,30);
SELECT *FROM EMPLOYEE ORDER BY E_ID;
```

Results Explain Describe Saved SQL History

E_ID	E_NAME	E_SALARY	DNO
101	VIJAY	10000	10
102	ARUN KUMAR	12000	10
103	DILIP KUMAR	15000	20
104	SUTHARSAN	20000	20
105	DHANUSH	18000	30
106	BHARATH	22000	30

2. GROUP BY

```
SELECT DNO, COUNT(*) FROM EMPLOYEE GROUP BY DNO;
```

Results Explain Describe Saved SQL History

DNO	COUNT(*)
30	2
20	2
10	2

3. FUNCTIONS

```
SELECT DNO, COUNT(*), SUM(E_SALARY),AVG(E_SALARY),MIN(E_SALARY),MAX(E_SALARY) FROM EMPLOYEE GROUP BY DNO;
```

Results Explain Describe Saved SQL History

DNO	COUNT(*)	SUM(E_SALARY)	AVG(E_SALARY)	MIN(E_SALARY)	MAX(E_SALARY)
30	2	40000	20000	18000	22000
20	2	35000	17500	15000	20000
10	2	22000	11000	10000	12000

4. GREATER AND LESSER OPERATION IN GROUP BY

```
SELECT DNO, COUNT(*), SUM(E_SALARY),AVG(E_SALARY),MIN(E_SALARY),MAX(E_SALARY) FROM EMPLOYEE GROUP BY DNO HAVING MIN(E_SALARY) > 13000 ORDER BY DNO;
```

Results Explain Describe Saved SQL History

DNO	COUNT(*)	SUM(E_SALARY)	AVG(E_SALARY)	MIN(E_SALARY)	MAX(E_SALARY)
20	2	35000	17500	15000	20000
30	2	40000	20000	18000	22000

5. CREATE STUDENT TABLE :

```
CREATE TABLE STUDENT_TABLE (REG_NO NUMBER(5) PRIMARY KEY,STUDENT_NAME VARCHAR2(20) NOT NULL, STUDENT_EMAIL VARCHAR2(20) UNIQUE, STUDENT_AGE NUMBER(3) CHECK (STUDENT_AGE > 0), STUDENT_LOCATION VARCHAR2(20) DEFAULT
'ERODE');
INSERT INTO STUDENT_TABLE VALUES (001,'VIJAY','vijay@gmail.com',20,'SALEM');
INSERT INTO STUDENT_TABLE VALUES (002,'SUTHARSAN','sutharsan@gmail.com',20,'SALEM');
INSERT INTO STUDENT_TABLE VALUES (003,'DILIP KUMAR','dilipkumar@gmail.com',21,'VELLORE');
INSERT INTO STUDENT_TABLE VALUES (004,'DHANUSH','dhanush@gmail.com',19,'TIRUPUR');
INSERT INTO STUDENT_TABLE VALUES (005,'SATHYASEELAN','seelan@gmail.com',18,'DHARMAPURI');
SELECT *FROM STUDENT_TABLE;
```

Results Explain Describe Saved SQL History

REG_NO	STUDENT_NAME	STUDENT_EMAIL	STUDENT_AGE	STUDENT_LOCATION
4	DHANUSH	dhanush@gmail.com	19	TIRUPUR
1	VIJAY	vijay@gmail.com	20	SALEM
2	SUTHARSAN	sutharsan@gmail.com	20	SALEM
3	DILIP KUMAR	dilipkumar@gmail.com	21	VELLORE
5	SATHYASEELAN	seelan@gmail.com	18	DHARMAPURI

6. CREATE DEPARTMET TABLE :

```
CREATE TABLE DEPARTMENT (DNO NUMBER(10) PRIMARY KEY,D_NAME VARCHAR2(20));
INSERT INTO DEPARTMENT VALUES (10,'MECHANICAL');
INSERT INTO DEPARTMENT VALUES (20,'CSE');
SELECT *FROM DEPARTMENT ORDER BY DNO;
```

Results Explain Describe Saved SQL History

DNO	D_NAME
10	MECHANICAL
20	CSE

7. CREATE TABLE EMPLOYEE_ADDRESS :

```
CREATE TABLE EMPLOYEE_ADDRESS (E_ID NUMBER (10) PRIMARY KEY,E_NAME VARCHAR2(20), E_SALARY NUMBER(10), DNO NUMBER(10), FOREIGN KEY (DNO) REFERENCES DEPARTMENT (DNO));
INSERT INTO EMPLOYEE_ADDRESS VALUES (101,'VIJAY',10000,10);
INSERT INTO EMPLOYEE_ADDRESS VALUES (102,'SUTHARSAN',20000,20);
SELECT *FROM EMPLOYEE_ADDRESS ORDER BY E_ID;
```

Results Explain Describe Saved SQL History

E_ID	E_NAME	E_SALARY	DNO
101	VIJAY	10000	10
102	SUTHARSAN	20000	20

8. CREATE VIEW :

```
CREATE TABLE EMPLOYEE (E_ID NUMBER(10) PRIMARY KEY,E_NAME VARCHAR(20),E_SALARY NUMBER(10),DNO NUMBER(10));
INSERT INTO EMPLOYEE VALUES (101,'VIJAY',10000,10);
INSERT INTO EMPLOYEE VALUES (102,'ARUN KUMAR',12000,10);
INSERT INTO EMPLOYEE VALUES (103,'DILIP KUMAR',15000,20);
INSERT INTO EMPLOYEE VALUES (104,'SUTHARSAN',20000,20);
INSERT INTO EMPLOYEE VALUES (105,'DHANUSH',18000,30);
INSERT INTO EMPLOYEE VALUES (106,'BHARATH',22000,30);
SELECT *FROM EMPLOYEE ORDER BY E_ID;

CREATE VIEW MYVIEW AS SELECT *FROM EMPLOYEE WHERE E_ID IN (101,102,103,104,105);
SELECT *FROM MYVIEW;
```

Results Explain Describe Saved SQL History

E_ID	E_NAME	E_SALARY	DNO
101	VIJAY KUMAR	10000	10
102	ARUN KUMAR	12000	10
103	DILIP KUMAR	15000	20
104	SUTHARSAN	20000	20
105	DHANUSH	18000	30

9. UPDATE MYVIEW :

```
CREATE VIEW MYVIEW AS SELECT *FROM EMPLOYEE WHERE E_ID IN (101,102,103,104,105);
SELECT *FROM MYVIEW;

UPDATE MYVIEW SET E_NAME='VIJAY KUMAR' WHERE E_ID=101;
```

Results Explain Describe Saved SQL History

E_ID	E_NAME	E_SALARY	DNO
101	VIJAY KUMAR	10000	10
102	ARUN KUMAR	12000	10
103	DILIP KUMAR	15000	20
104	SUTHARSAN	20000	20
105	DHANUSH	18000	30

10. DROP MYVIEW :

```
DROP VIEW MYVIEW;
```

Results Explain Desc

View dropped.

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