

## Assignment – 9

1. Create view V\_MARKS with roll no, student name, subject code, marks of all CSE students.

```
CREATE VIEW V_MARKS AS SELECT st.RollNo, st.Name AS "Student Name",  
r.Sub_code AS  
"Subject Code", r.Marks AS "Marks" FROM RESULT2078 r JOIN STUDENT2078 st  
ON r.RollNo  
= st.RollNo WHERE st.DeptCode = 'CSE';
```

```
SQL> select * from V_MARKS;
```

ROLLNO	Student Name	Subject	Marks
1001	ANKIT DAS	CS501	68
1002	MOINAK GHOSH	CS501	76
1003	PARIMAL KUMAR	CS501	91
1001	ANKIT DAS	CS502	40
1002	MOINAK GHOSH	CS502	81
1003	PARIMAL KUMAR	CS502	82
1023	SAMPRIKTA BISWAS	CS301	92
1029	NAITIK PRASAD	CS301	83
1500	SUBARNA MITRA	CS301	65
1023	SAMPRIKTA BISWAS	CS302	80
1029	NAITIK PRASAD	CS302	76
1500	SUBARNA MITRA	CS302	40

12 rows selected.

2. Create view V\_CLASSTAKEN with subject code, subject name, Faculty code, faculty name where the subject is taught by that faculty.

```
CREATE VIEW V_CLASSTAKEN AS SELECT s.SubjectCode, s.SubjectName, f.FID AS  
FacultyCode, f.Name AS FacultyName FROM SUBJECT2078 s JOIN FACULTY2078 f  
ON  
s.Teacher = f.FID;
```

```
SQL> select * from V_CLASSTAKEN;
```

SUBJECTC	SUBJECTNAME	FACU	FACULTYNAME
CS301	Data Structure	F01	Aloke Kumar Dutta
CS302	Computer Organization	F02	Abhijit Roy
CS501	Discrete Mathematics	F03	Probal Kumar
CS502	Data Communication	F04	Mousumi Dey
ECS501	Data Base systems	F05	Sharmistha Nag
EC501	Analog Signals	F06	Dipti Bhattacharyya
CS503	Operating Systems	F07	Sanjay Kumar Das

7 rows selected.

3. Create view V\_SUBJECT with subject\_code, subject\_name, teacher name where number of student in the subject is more than 1.

```
CREATE VIEW V_SUBJECT AS SELECT s.SubjectCode, s.SubjectName, f.Name AS
TeacherName
FROM SUBJECT2078 s JOIN FACULTY2078 f ON s.Teacher = f.FID WHERE
s.SubjectCode IN
(SELECT Sub_Code FROM RESULT2078 GROUP BY Sub_Code HAVING
COUNT(DISTINCT
RollNo) > 1);
```

```
SQL> select * from V_SUBJECT;
```

SUBJECTC	SUBJECTNAME	TEACHERNAME
CS301	Data Structure	Aloke Kumar Dutta
CS302	Computer Organization	Abhijit Roy
CS501	Discrete Mathematics	Probal Kumar
CS502	Data Communication	Mousumi Dey
ECS501	Data Base systems	Sharmistha Nag

4. Create view V\_STUDENT with student name, roll number, department who appeared in at least one examination.

```
CREATE VIEW V_STUDENT AS
SELECT s.Name AS student_name, s.RollNo AS roll_number, d.DeptName AS
department
FROM STUDENT2078 s JOIN RESULT2078 r ON s.RollNo = r.RollNo JOIN
DEPARTMENT2078 d ON s.DeptCode = d.DeptCode;
```

STUDENT_NAME	ROLL_NUMBER	DEPARTMENT
ANKIT DAS	1001	Computer Science and Engineering
ANKIT DAS	1001	Computer Science and Engineering
MOINAK GHOSH	1002	Computer Science and Engineering
MOINAK GHOSH	1002	Computer Science and Engineering
PARIMAL KUMAR	1003	Computer Science and Engineering
PARIMAL KUMAR	1003	Computer Science and Engineering
SAMPRIKTA BISWAS	1023	Computer Science and Engineering
SAMPRIKTA BISWAS	1023	Computer Science and Engineering
NAITIK PRASAD	1029	Computer Science and Engineering
NAITIK PRASAD	1029	Computer Science and Engineering
SUBARNA MITRA	1500	Computer Science and Engineering

  

STUDENT_NAME	ROLL_NUMBER	DEPARTMENT
SUBARNA MITRA	1500	Computer Science and Engineering
SANCHITA SINGH	2001	Electronics and Communication Engineering
ANANYA BISWAS	2002	Electronics and Communication Engineering
ASHISH KUMAR	2101	Electronics and Communication Engineering

15 rows selected.

5. Create view V\_DEPT with dept code, semester, number of student with more than 75 marks in at least one subject.

```
CREATE VIEW V_DEPT AS  
SELECT d.DeptCode, s.Semester, COUNT(DISTINCT r.RollNo) AS Num_Students  
FROM DEPARTMENT2078 d  
JOIN STUDENT2078 s ON d.DeptCode = s.DeptCode  
JOIN RESULT2078 r ON s.RollNo = r.RollNo  
WHERE r.Marks > 75  
GROUP BY d.DeptCode, s.Semester;
```

```
SQL> select * from V_DEPT;  
  
DEPT SEME NUM_STUDENTS  
---- ---- -  
CSE SEM3 2  
CSE SEM5 2  
ECE SEM5 1
```