

Assignment - 9

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

```
CREATE VIEW V_MARK AS SELECT st.RollNo, st.Name AS "Student Name", r.Sub_code AS "Subject Code", r.Marks AS "Marks" FROM RESULT2076 r JOIN STUDENT2076 st ON r.RollNo = st.RollNo WHERE st.DeptCode = 'CSE';
```

```
SQL> select * from V_MARK;
```

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

ROLLNO	Student Name	Subject	Marks
1500	SUBARNA MITRA	CS302	40

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

```
CREATE VIEW V_CLASSTAKE AS SELECT s.SubjectCode, s.SubjectName, f.FID AS FacultyCode, f.Name AS FacultyName FROM SUBJECT2076 s JOIN FACULTY2076 f ON s.Teacher = f.FID;
```

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_SUBJECTS with subject_code, subject_name, teacher name where number of student in the subject is more than 1.

```
CREATE VIEW V_SUBJECTS AS SELECT s.SubjectCode, s.SubjectName, f.Name AS TeacherName FROM SUBJECT2076 s JOIN FACULTY2076 f ON s.Teacher = f.FID WHERE s.SubjectCode IN (SELECT Sub_Code FROM RESULT2076 GROUP BY Sub_Code HAVING COUNT(DISTINCT
```

RollNo) > 1);

```
SQL> select * from V_SUBJECTS;
```

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

```
SQL>
```

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

```
CREATE VIEW V_STUDENTS AS
SELECT s.Name AS student_name, s.RollNo AS roll_number, d.DeptName AS department
FROM STUDENT2076 s JOIN RESULT2076 r ON s.RollNo = r.RollNo JOIN
DEPARTMENT2076 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
SANCHITA SINGH	2001	Electronics and Communication Engineering
ANANYA BISWAS	2002	Electronics and Communication Engineering
ASHISH KUMAR	2101	Electronics and Communication Engineering
NAITIK PRASAD	1029	Computer Science and Engineering
NAITIK PRASAD	1029	Computer Science and Engineering

STUDENT_NAME	ROLL_NUMBER	DEPARTMENT
SAMPRIKTA BISWAS	1023	Computer Science and Engineering
SAMPRIKTA BISWAS	1023	Computer Science and Engineering
SUBARNA MITRA	1500	Computer Science and Engineering
SUBARNA MITRA	1500	Computer Science and Engineering

15 rows selected.

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

```
CREATE VIEW V_DEPTS AS
SELECT d.DeptCode, s.Semester, COUNT(DISTINCT r.RollNo) AS Num_Students
FROM DEPARTMENT2076 d
JOIN STUDENT2076 s ON d.DeptCode = s.DeptCode
JOIN RESULT2076 r ON s.RollNo = r.RollNo
WHERE r.Marks > 75
GROUP BY d.DeptCode, s.Semester;
```

```
SQL> select * from V_DEPTS;
```

DEPT	SEME	NUM_STUDENTS
CSE	SEM3	2
CSE	SEM5	2
ECE	SEM5	1