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Roll No. 20051523

Subject DBMS

Batch CSE-06

Branch CSE

### Activity 5

Faculty Course Allotment & Student Registration System

- a) List all courses offered by B.Tech CSSE program.
- select course.courseName, program.programName from  
course INNER JOIN program ON course.programID =  
program.programID where program.programName = 'BtechCSE'

COURSENAME	PROGRAMNAME
DSA	BtechCSE
DBMS	BtechCSE

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2 rows selected.

- b) List all programs offered by CSE department.
- select program.programName, department.deptname from  
Program INNER JOIN Department ON program.deptID =  
department.deptID where department.deptname = 'Computer  
Science' ;

PROGRAMNAME	DEPTNAME
BtechCSE	ComputerScience
MtechCSE	ComputerScience

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2 rows selected.

c) List all courses with LTP = 305 & regulation is Y15.

```
select course.CourseName, course.LTP, Regulation.
name as "Regulation" from course INNER JOIN
courseFaculty ON course.courseID = coursefaculty.courseID
INNER JOIN regulation ON coursefaculty.regulationID =
regulation.regulationID where regulation.name = 'Y15'
and course.LTP = '305';
```

COURSENAME	LTP	Regulation
BMS	305	Y15

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d) List all the students registered with each course of each program.

~~Select student.name, course.LTP, Regulation.name as~~  
select student.name, course.courseName, program,  
programName from student INNER JOIN course ON  
course.courseID = student.courseID INNER JOIN program  
ON program.programID = student.programID;

NAME	COURSENAME	PROGRAMNAME
TomCruise	DSA	BtechCSE
MickeyTyler	DSA	BtechCSE
BrianLee	DBMS	BtechCSE
DeborahRickles	AEC	BtechECE
RajeshPatel	BComm	MtechCSE

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5 rows selected.

e) List all students registered to a faculty of course DBMS taught by kunal

select student.name, faculty.facultyname from student  
INNER JOIN Faculty ON student.facultyID = faculty.facultyID  
where faculty.facultyName = 'kunal';

NAME	FACULTYNAME
TomCruise	Kunal
MickeyTyler	Kunal

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2 rows selected.

f) List all the faculty teaching M.Tech CSE program  
 select faculty.facultyName, program.programName from  
 faculty INNER JOIN courseFaculty on faculty.facultyID =  
 courseFaculty.facultyID INNER JOIN program ON  
 program.programID = courseFaculty.programID where  
 program.programName = 'MtechCSE';

FACULTYNAME	PROGRAMNAME
Tony	MtechCSE

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g) List all course name along with its type & department  
 name for each program run under Y15 regulation.

select course.courseName, course.courseType, department.  
 deptName, regulation.name as "Regulation" from course  
 INNER JOIN Department ON course.deptID = department.  
 deptID INNER JOIN courseFaculty ON course.programID  
 = courseFaculty.programID INNER JOIN regulation ON  
 regulation.regulationID = courseFaculty.regulationID  
 where regulation.name = 'Y15';

COURSENAME	COURSETYPE	DEPTNAME	Regulation
BComm	Elective	Science	Y15

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h) List the entire faculty names, subject name, Preference No whose subject allotment is matching with their preferences.

```
select faculty.facultyName, course.courseName, faculty.
PreferenceNo as "Preference Given", coursefaculty.preferenceID
as "Alloted Course PreferenceID" from faculty INNER JOIN
coursefaculty ON faculty.facultyID = coursefaculty.facultyID
INNER JOIN course ON course.courseID = coursefaculty.
courseID where faculty.preferenceNo = coursefaculty.
preferenceID;
```

FACULTYNAME	COURSENAME	Preference Given	Alloted Course Preference ID
Jack	AEC	30	30
Steve	BComm	50	50
Tony	BMS	40	40

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3 rows selected.

i) List all faculty name, subject names of all the faculty whose subject allotment is not matching with their preferences

```
select faculty.facultyName, course.courseName, faculty.
PreferenceNo as "Alloted Course PreferenceID" from faculty
INNER JOIN courseFaculty ON faculty.facultyID =
coursefaculty.facultyID INNER JOIN course ON course.
courseID = coursefaculty.courseID where faculty.preferenceNo !=
```

Coursefaculty.preferenceID;

FACULTYNAME	COURSENAME	Preference Given	Alloted Course Preference ID
Kunal	DSA	20	10
Nikhil	DBMS	10	20

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j) List all elective courses offered by BTech ECE program under Y13 regulation

```
select course.courseName, course.courseType, program.  
programName, regulation.Name as "Regulation" from  
course INNER JOIN coursefaculty ON coursefaculty.  
courseID = course.courseID INNER JOIN program ON  
coursefaculty.programID = program.programID INNER  
JOIN regulation ON coursefaculty.regulationID = regulation.  
regulationID where program.programName = 'Btech ECE'  
and regulation.name = 'Y13' and course.courseType =  
'Elective';
```

COURSENAME	COURSETYPE	PROGRAMNAME	Regulation
AEC	Elective	BtechECE	Y13

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