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show databases;
create database lab5_tables;
use lab5_tables;
# Create the tables with the following fields
# Faculty (FacultyCode, FacultyName)
# Subject (SubjectCode, SubjectName, MaxMark, FacultyCode)
# Student(StudentCode, StudentName, DOB, StudentsBranch(CS/EC/EE/ME), AdmissionDate)
#M_Mark (StudentCode, SubjectCode, Mark)
create table Faculty (F_Code int Primary Key, F_Name Varchar(15));
insert into Faculty(F_Code, F_Name) values(101, 'Silgy');
insert into Faculty(F_Code, F_Name) values(102, 'Bindu');
insert into Faculty(F_Code, F_Name) values(103,'Vidhya');
insert into Faculty(F_Code, F_Name) values(104, 'Sangeetha');
insert into Faculty(F_Code, F_Name) values(105, 'Jayakumar');
select * from Faculty;
create table Subject (subjectcode varchar(5) primary key not null,
                                 subjectname char(15),
                       maxmark int,
                       faculty_code int, foreign key(faculty_code) references
Faculty(f_code));
insert into Subject(subjectcode, subjectname, maxmark, faculty_code) values(501,
'Maths', 150, 101);
insert into Subject(subjectcode, subjectname, maxmark, faculty_code) values(502,
'FCA', 100, 102);
insert into Subject(subjectcode, subjectname, maxmark, faculty_code) values(503,
'DBMS', 100, 105);
insert into Subject(subjectcode, subjectname, maxmark, faculty_code) values(504, 'OS',
75, 103);
insert into Subject(subjectcode, subjectname, maxmark, faculty_code) values(505, 'DC',
200, 104);
insert into Subject(subjectcode, subjectname, maxmark, faculty_code) values(508, 'DBMS
Lab', 1001, 103);
select * from Subject;
create table Student(studentcode varchar(5) primary key not null,
                                studentname char(15),
                      dob date,
                      studentbranch char(3),
                      adate date, check(studentbranch in('cs', 'ec', 'ee', 'me')));
insert into Student values(1, 'Amitha', STR_TO_DATE('12-jan-1987', '%d-%M-
%Y'), 'cs', STR_TO_DATE('1-jun-2000', '%d-%M-%Y'));
insert into Student values(2, 'vaidehi', STR_TO_DATE('25-dec-88', '%d-%M-
%Y'), 'cs', STR_TO_DATE('1-jun-2000', '%d-%M-%Y'));
insert into Student values(3, 'varun', STR_TO_DATE('2-oct-88', '%d-%M-
%Y'), 'cs', STR_TO_DATE('2-jun-2000', '%d-%M-%Y'));
insert into Student values(4, 'turner', STR_TO_DATE('5-sep-88', '%d-%M-
%Y'), 'cs', STR_TO_DATE('2-jun-2000', '%d-%M-%Y'));
insert into Student values(5, 'vani', STR_TO_DATE('20-jul-88', '%d-%M-
%Y'), 'cs', STR_TO_DATE('5-jun-2000', '%d-%M-%Y'));
insert into Student values(6, 'binu', STR_TO_DATE('13-aug-88', '%d-%M-%Y'), 'cs', STR_TO_DATE('10-jun-2000', '%d-%M-%Y'));
insert into Student values(7, 'chitra', STR_TO_DATE('14-nov-86', '%d-%M-
%Y'), 'cs', STR_TO_DATE('9-jun-2000', '%d-%M-%Y'));
insert into Student values(8, 'dona', STR_TO_DATE('2-dec-91', '%d-%M-
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%Y'), 'cs', STR_TO_DATE('2-jun-2000', '%d-%M-%Y'));
insert into Student values(9, 'elana', STR_TO_DATE('5-feb-90', '%d-%M-%Y'), 'cs', STR_TO_DATE('2-jun-2000', '%d-%M-%Y'));
insert into Student values(10, 'fahan', STR_TO_DATE('20-mar-88', '%d-%M-
%Y'), 'cs', STR_TO_DATE('5-jun-2000', '%d-%M-%Y'));
insert into Student values(11, 'ginu', STR_TO_DATE('13-apr-88', '%d-%M-
%Y'), 'cs', STR_TO_DATE('10-jun-2000', '%d-%M-%Y'));
insert into Student values(12, 'hamna', STR_TO_DATE('14-may-85', '%d-%M-
%Y'), 'cs', STR_TO_DATE('9-jun-2000', '%d-%M-%Y'));
create table M_mark(studentcode varchar(5) references Student(studentcode),
                               subjectcode varchar(5) references
Subject(subjectcode),
                     mark int,primary key(studentcode, subjectcode));
insert into M_mark values(1,501,40);
insert into M_mark values(1,502,70);
insert into M_mark values(1,503,50);
insert into M_mark values(1,504,80);
insert into M_mark values(1,505,40);
insert into M_mark values(1,508,70);
insert into M_mark values(2,501,90);
insert into M_mark values(2,502,89);
insert into M_mark values(2,503,77);
insert into M_mark values(2,504,95);
insert into M_mark values(2,505,74);
insert into M_mark values(2,508,98);
insert into M_mark values(3,501,40);
insert into M_mark values(3,502,43);
insert into M_mark values(3,503,40);
insert into M_mark values(3,504,40);
insert into M_mark values(3,505,40);
insert into M_mark values(3,508,35);
insert into M_mark values(4,501,50);
insert into M_mark values(5,501,60);
insert into M_mark values(6,501,67);
insert into M_mark values(7,501,23);
insert into M_mark values(8,501,43);
insert into M_mark values(9,501,42);
insert into M_mark values(10,505,74);
insert into M_mark values(11,508,98);
insert into M_mark values(12,501,40);
insert into M_mark values(5,502,43);
insert into M_mark values(6,503,40);
insert into M_mark values(7,504,40);
insert into M_mark values(8,505,40);
insert into M_mark values(9,508,35);
insert into M_mark values(10,501,50);
insert into M_mark values(11,501,60);
insert into M_mark values(12,503,67);
insert into M_mark values(5,504,23);
insert into M_mark values(6,504,23);
insert into M_mark values(9,504,1);
insert into M mark values(10,504,1);
insert into M_mark values(6,502,43);
insert into M_mark values(7,505,42);
# query 1- Display the number of faculties.
 select count(*) "No of Faculty = " from Faculty;
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- # Display the total mark for each student.
 select studentname, sum(mark) "Total Mark" from M_mark, Student where
 Student.studentcode= M_mark.studentcode group by studentname;
- # Display the subject, average mark for each subject.
 select subjectname, round(avg(mark), 2) "Average mark" from Subject, M_mark where
 Subject.subjectcode= M_mark.subjectcode group by subjectname;
- # Display the name of subjects for which atleast one student got below 40%
 select Subject.subjectname, count(studentname) "NO: OF STUDENTS" from
 Subject,M_mark, Student where Student.studentcode= M_mark.studentcode and
 M_mark.mark<(40* maxmark)/100 and Subject.subjectCode=M_mark.subjectcode group by
 Subject.Subjectname having count(distinct(M_mark.subjectcode))>=1;
- # Display the name, subject and percentage of mark who got below 40 %.
 select studentname, subjectname, mark, maxmark, round((M_mark.mark/maxmark)*100,2)
 "Percentage" from Subject, Student, M_mark where mark<(40*maxmark/100) and
 Subject.subjectCode = M_mark. subjectcode and Student.studentcode =
 M_mark.studentcode;</pre>
- # Display the faculties and alloted subjects for each faculty
 select Faculty.F_name,Subject.subjectname from Faculty, Subject where
 Faculty.F_code=Subject.faculty_code;
- # Display the name of faculties who take more than one subject.
 select F_Name from Faculty where (select count(subjectcode) from Subject where
 Subject.faculty_code=Faculty.F_Code) > 1 group by Faculty.F_Name;
- # Display name, subject, mark, % of mark in ascending order of mark
 select studentname, subjectname, mark from Student, Subject, M_mark where
 Student.studentcode=M_mark.studentcode and Subject.subjectcode=M_mark.subjectcode
 order by mark;