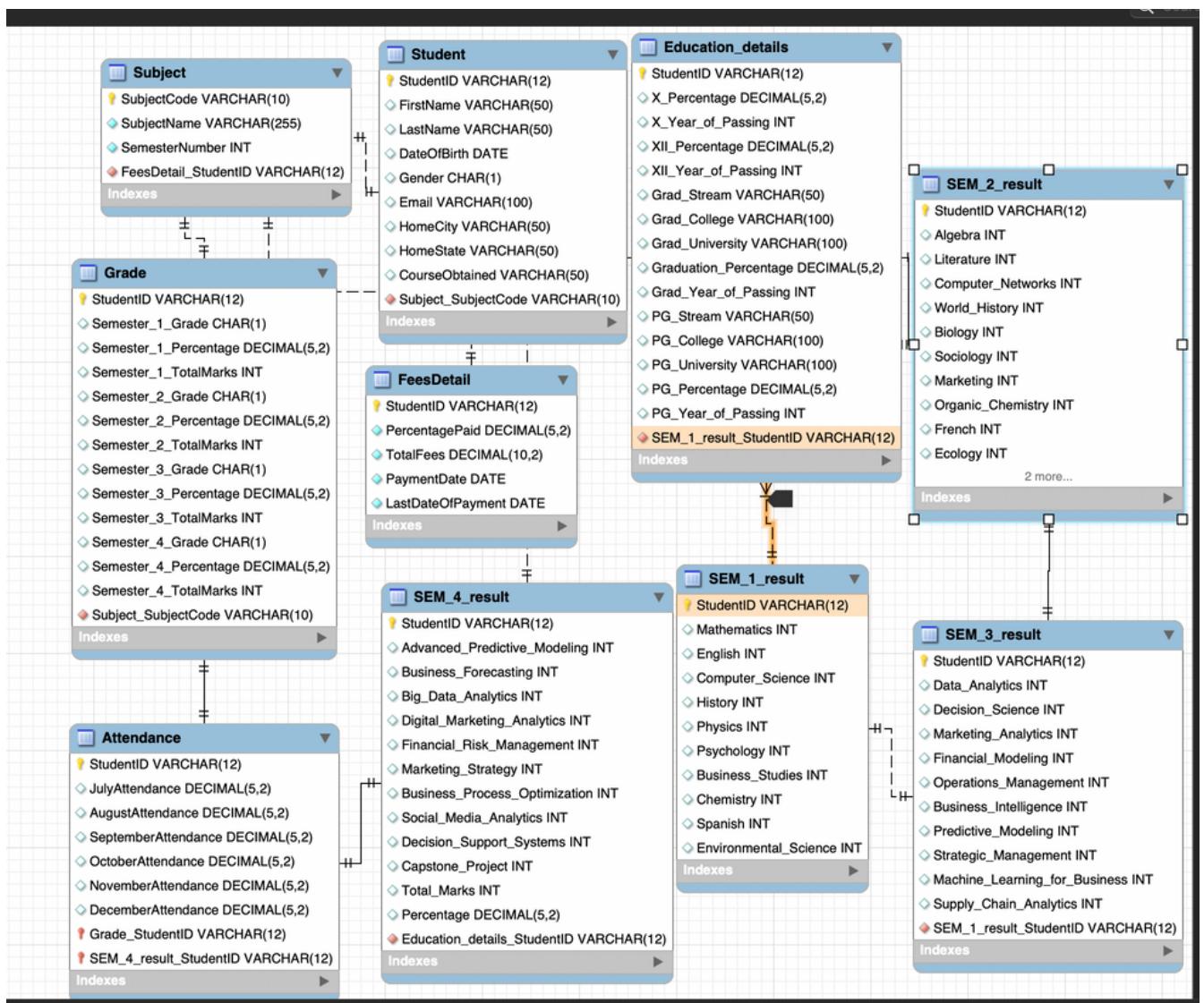


Mini Project on Student Management System Using mySQL

ER Diagram



create database

Student_system use

Student_system

#1st table Student

```
CREATE TABLE Student (
    StudentID VARCHAR(12) PRIMARY KEY,
    FirstName VARCHAR(50),
    LastName VARCHAR(50),
    DateOfBirth DATE,
    Gender CHAR(1),
    Email VARCHAR(100),
    HomeCity VARCHAR(50),
    HomeState VARCHAR(50),
    CourseObtained VARCHAR(50)
);
```

INSERT INTO Student VALUES

```
('20222MBL0001', 'shanti', 'chakma', '1990-01-15', 'M', 'shanti@gmail.com', 'BAILHONGAL',
'Karnataka', 'Finance-Marketing'),
('20222MBL0002', 'vidhya', 'kumari', '1992-05-20', 'F', 'vidhya@gmail.com', 'Kolar gold field',
'Karnataka', 'Finance - Business Analytics'),
```

```

('20222MBL0003', 'shobha', 'pattu', '1991-08-12', 'F', 'shobha@gmail.com', 'BANGALORE',
'Karnataka', 'Finance-Marketing'),
('20222MBL0004', 'madu', 'Dena', '1993-04-30', 'F', 'madu@gmail.com', 'Bangalore', 'Karnataka',
'Finance - Business Analytics'),
('20222MBL0005', 'roshmi', 'sdevi', '1990-11-22', 'F', 'roshmi@gmail.com', 'Chowlahiriyyur',
'Karnataka', 'Finance - Business Analytics'),
('20222MBL0006', 'jiya', 'chakma', '1992-09-18', 'F', 'jiya@gmail.com', 'DHARMAVARAM',
'Andhra Pradesh', 'Finance - Business Analytics'),
('20222MBL0007', 'malika', 'arjun', '1994-03-05', 'M', 'malika@gmail.com', 'tumkur district',
'Karnataka', 'Finance-Marketing'),
('20222MBL0008', 'Sophia', 'Smith', '1991-06-14', 'F', 'Sophia@gmail.com', 'MADIKERI',
'Karnataka', 'Finance - Business Analytics'),
('20222MBL0009', 'Daniel', 'Moore', '1993-12-03', 'M', 'Daniel@gmail.com', 'SRAVANUR',
'Karnataka', 'Finance - Business Analytics'),
('20222MBL0010', 'pinki', 'Robin', '1992-02-25', 'F', 'pinki@gmail.com', 'Banglore rural',
'Karnataka', 'Finance - Human Resources'),
('20222MBL0011', 'medina', 'Turner', '1990-07-08', 'F', 'medina@gmail.com', 'MALUR',
'Karnataka', 'Finance - Business Analytics'),
('20222MBL0012', 'sagar', 'Foster', '1993-10-11', 'F', 'sagar@gmail.com', 'Chittoor', 'Karnataka',
'Finance-Marketing'),
('20222MBL0013', 'jyoti', 'Bennett', '1991-01-28', 'M', 'jyoti@gmail.com', 'Mysore', 'Karnataka',
'Finance - Business Analytics'),
('20222MBL0014', 'amano', 'Hughes', '1994-06-09', 'F', 'amano@gmail.com', 'Nayakanahatti',
'Karnataka', 'Finance - Human Resources'),
('20222MBL0015', 'Noah', 'Carter', '1992-04-16', 'M', 'Noah@gmail.com', 'Basapattana',
'Karnataka', 'Finance-Marketing');
select *from Student;

```

#2nd table Education_details

```

CREATE TABLE Education_details (
    StudentID VARCHAR(12) PRIMARY KEY,
    X_Percentage DECIMAL(5,2),

```

```
X_Year_of_Passing INT,  
XII_Percentage DECIMAL(5,2),  
XII_Year_of_Passing INT,  
Grad_Stream VARCHAR(50),  
Grad_College VARCHAR(100),  
Grad_University VARCHAR(100),  
Graduation_Percentage DECIMAL(5,2),  
Grad_Year_of_Passing INT,  
PG_Stream VARCHAR(50),  
PG_College VARCHAR(100),  
PG_University VARCHAR(100),  
PG_Percentage DECIMAL(5,2),  
PG_Year_of_Passing INT  
);
```

```
INSERT INTO Education_details VALUES  
('20222MBL0001', 77.12, 2017, 77.5, 2019, 'B.Com', 'J.S.S SHRI MANJUNATHESHWARA  
INSTITUTE OF UNDER-GRADUATE & POST-GRADUATE STUDIES', 'KARNATAK UNIVERSITY', 76.3,  
2022, 'Finance-Marketing', 'PRESIDENCY UNIVERSITY, BANGALORE', 'PRESIDENCY UNIVERSITY',  
59.6, 2024),  
('20222MBL0002', 72, 2016, 64.33, 2018, 'BBA', 'SRI BHAGAWAN MAHAVEER JAIN FIRST GRADE  
COLLEGE BANGALORE', 'BENGALURU NORTH UNIVERSITY', 79.63, 2022, 'Finance - Business  
Analytics', 'PRESIDENCY UNIVERSITY, BANGALORE', 'PRESIDENCY UNIVERSITY', 80.8, 2024),  
('20222MBL0003', 67.04, 2016, 56.67, 2018, 'B.Com', 'KLES NIJALINGAPPA COLLEGE',  
'BENGALURU CENTRAL UNIVERSITY', 74.85, 2022, 'Finance-Marketing', 'PRESIDENCY  
UNIVERSITY, BANGALORE', 'PRESIDENCY UNIVERSITY', 65, 2024),  
('20222MBL0004', 76.16, 2017, 76.33, 2019, 'B.Com', 'Sheshadripuram arts, science & commerce  
college', 'BENGALURU CENTRAL UNIVERSITY', 80.37, 2022, 'Finance - Business Analytics',  
'PRESIDENCY UNIVERSITY, BANGALORE', 'PRESIDENCY UNIVERSITY', 75.4, 2024),  
('20222MBL0005', 74.08, 2019, 88.33, 2019, 'B.Com', 'SAHYADRI COMMERCE & MANAGEMENT  
COLLEGE SHIVAMOGA', 'KUVEMPU UNIVERSITY', 82.03, 2022, 'Finance - Business Analytics',  
'PRESIDENCY UNIVERSITY, BANGALORE', 'PRESIDENCY UNIVERSITY', 74.2, 2024),
```

('20222MBL0006', 87.4, 2017, 88.7, 2019, 'BBA', 'SRI SAI DEGREE COLLEGE DHARMAVARAM', 'VIJAYANAGARA SRI KRISHNADEVARAYA UNIVERSITY', 77.4, 2022, 'Finance - Business Analytics', 'PRESIDENCY UNIVERSITY, BANGALORE', 'PRESIDENCY UNIVERSITY', 77.1, 2024),
(('20222MBL0007', 87.68, 2017, 75.17, 2019, 'BA', 'UNIVERSAL SCHOOL OF ADMINISTRATION', 'BANGALORE UNIVERSITY', 86.71, 2022, 'Finance-Marketing', 'PRESIDENCY UNIVERSITY, BANGALORE', 'PRESIDENCY UNIVERSITY', 72.9, 2024),
(('20222MBL0008', 89.6, 2017, 90.5, 2019, 'B.Com', 'ST AGNES COLLEGE', 'MANGALORE UNIVERSITY', 85.25, 2022, 'Finance - Business Analytics', 'PRESIDENCY UNIVERSITY, BANGALORE', 'PRESIDENCY UNIVERSITY', 82.1, 2024),
(('20222MBL0009', 81.44, 2016, 86.5, 2018, 'B.Com', 'CENTRAL COMMERCE FIRST GRADE COLLEGE', 'UNIVERSITY OF MYSORE', 85.72, 2022, 'Finance - Business Analytics', 'PRESIDENCY UNIVERSITY, BANGALORE', 'PRESIDENCY UNIVERSITY', 80, 2024),
(('20222MBL0010', 74.56, 2017, 80.83, 2019, 'B.Com', 'SOUNDARYA INSTITUTE OF MANAGEMENT & SCIENCE', 'BANGALORE UNIVERSITY', 87.72, 2022, 'Finance - Human Resources', 'PRESIDENCY UNIVERSITY, BANGALORE', 'PRESIDENCY UNIVERSITY', 72.1, 2024),
(('20222MBL0011', 74.72, 2017, 80.66, 2019, 'BCA', 'NEW HORIZON COLLEGE', 'BENGALURU NORTH UNIVERSITY', 84.76, 2022, 'Finance - Business Analytics', 'PRESIDENCY UNIVERSITY, BANGALORE', 'PRESIDENCY UNIVERSITY', 75, 2024),
(('20222MBL0012', 73.15, 2016, 64.5, 2018, 'B.Com', 'S.V. UNIVERSITY TIRUPATI', 'SRI VENKATESWARA UNIVERSITY', 64.33, 2022, 'Finance-Marketing', 'PRESIDENCY UNIVERSITY, BANGALORE', 'PRESIDENCY UNIVERSITY', 67.5, 2024),
(('20222MBL0013', 83.04, 2017, 90.33, 2019, 'B.Com', 'DE PAUL FIRST GRADE COLLEGE', 'UNIVERSITY OF MYSORE', 83.35, 2022, 'Finance - Business Analytics', 'PRESIDENCY UNIVERSITY, BANGALORE', 'PRESIDENCY UNIVERSITY', 77.5, 2024),
(('20222MBL0014', 75.36, 2017, 78.33, 2019, 'B.Com', 'SRI SIDDHARTHA INSTITUTE OF BUSINESS MANAGEMENT DEGREE & PG COLLEGE', 'TUMKUR UNIVERSITY', 74.31, 2022, 'Finance - Human Resources', 'PRESIDENCY UNIVERSITY, BANGALORE', 'PRESIDENCY UNIVERSITY', 73.8, 2024),
(('20222MBL0015', 56.16, 2015, 63, 2017, 'B.Sc', 'V N COLLEGE HOSPET', 'VIJAYANAGARA SRI KRISHNADEVARAYA UNIVERSITY,BELLARI', 69.4, 2022, 'Finance-Marketing', 'PRESIDENCY UNIVERSITY, BANGALORE', 'PRESIDENCY UNIVERSITY', 51.7, 2024);

SEM_1_result table

CREATE TABLE SEM_1_result (

```
StudentID VARCHAR(12) PRIMARY KEY,  
Mathematics INT,  
English INT,  
Computer_Science INT,  
History INT,  
Physics INT,  
Psychology INT,  
Business_Studies INT,  
Chemistry INT,  
Spanish INT,  
Environmental_Science INT  
);
```

```
INSERT INTO SEM_1_result VALUES  
('20222MBL0001', 78, 85, 92, 67, 75, 89, 80, 88, 72, 93),  
('20222MBL0002', 60, 72, 87, 55, 91, 78, 65, 76, 82, 47),  
('20222MBL0003', 89, 68, 75, 79, 45, 57, 93, 61, 90, 70),  
('20222MBL0004', 73, 88, 60, 82, 47, 84, 75, 68, 94, 55),  
('20222MBL0005', 94, 50, 72, 90, 64, 79, 54, 83, 43, 88),  
('20222MBL0006', 51, 93, 85, 63, 76, 42, 89, 57, 91, 48),  
('20222MBL0007', 84, 67, 48, 71, 94, 65, 80, 53, 78, 92),  
('20222MBL0008', 56, 82, 73, 59, 88, 90, 67, 70, 52, 86),  
('20222MBL0009', 90, 71, 54, 86, 50, 63, 77, 82, 69, 45),  
('20222MBL0010', 69, 49, 91, 74, 83, 58, 94, 72, 77, 61),  
('20222MBL0011', 79, 94, 67, 50, 72, 86, 55, 89, 60, 80),  
('20222MBL0012', 62, 79, 80, 58, 87, 71, 47, 95, 64, 83),  
('20222MBL0013', 85, 60, 89, 69, 52, 94, 62, 78, 84, 53),
```

```
('20222MBL0014', 47, 86, 78, 83, 60, 75, 91, 68, 56, 75),  
('20222MBL0015', 72, 55, 63, 94, 76, 67, 84, 59, 73, 89);
```

SEM_2_result table

```
CREATE TABLE SEM_2_result (  
    StudentID VARCHAR(12) PRIMARY KEY,  
    Algebra INT,  
    Literature INT,  
    Computer_Networks INT,  
    World_History INT,  
    Biology INT,  
    Sociology INT,  
    Marketing INT,  
    Organic_Chemistry INT,  
    French INT,  
    Ecology INT  
);
```

```
INSERT INTO SEM_2_result VALUES  
('20222MBL0001', 82, 88, 75, 70, 91, 57, 83, 89, 78, 62),  
('20222MBL0002', 69, 78, 86, 55, 94, 82, 65, 70, 75, 50),  
('20222MBL0003', 85, 62, 70, 79, 48, 60, 88, 62, 87, 73),  
('20222MBL0004', 74, 80, 58, 82, 53, 74, 77, 80, 92, 55),  
('20222MBL0005', 91, 54, 72, 90, 68, 77, 54, 85, 46, 88),  
('20222MBL0006', 56, 89, 80, 63, 79, 48, 92, 57, 84, 45),
```

```
('20222MBL0007', 87, 60, 48, 71, 92, 68, 81, 53, 76, 94),  
('20222MBL0008', 60, 82, 75, 59, 88, 90, 67, 70, 82, 61),  
('20222MBL0009', 89, 71, 54, 86, 50, 63, 77, 82, 69, 45),  
('20222MBL0010', 72, 49, 88, 74, 83, 55, 94, 72, 67, 80),  
('20222MBL0011', 80, 94, 67, 50, 72, 86, 55, 89, 60, 79),  
('20222MBL0012', 63, 79, 81, 58, 87, 71, 47, 95, 64, 83),  
('20222MBL0013', 88, 60, 89, 69, 52, 94, 62, 78, 84, 53),  
('20222MBL0014', 49, 86, 78, 83, 60, 75, 91, 68, 56, 75),  
('20222MBL0015', 75, 55, 65, 94, 76, 63, 84, 59, 73, 89);
```

#SEM_3_result table

```
CREATE TABLE SEM_3_result (  
    StudentID VARCHAR(12) PRIMARY KEY,  
    Data_Analytics INT,  
    Decision_Science INT,  
    Marketing_Analytics INT,  
    Financial_Modeling INT,  
    Operations_Management INT,  
    Business_Intelligence INT,  
    Predictive_Modeling INT,  
    Strategic_Management INT,  
    Machine_Learning_for_Business INT,  
    Supply_Chain_Analytics INT  
);
```

```
INSERT INTO SEM_3_result VALUES
```

```
('20222MBL0001', 87, 78, 91, 68, 75, 88, 80, 85, 92, 78),  
('20222MBL0002', 62, 70, 84, 55, 89, 77, 65, 74, 82, 47),  
('20222MBL0003', 80, 65, 77, 79, 42, 55, 93, 61, 88, 70),  
('20222MBL0004', 73, 82, 60, 82, 47, 84, 75, 68, 94, 55),  
('20222MBL0005', 92, 56, 72, 90, 64, 79, 54, 83, 43, 88),  
('20222MBL0006', 54, 87, 85, 63, 76, 42, 89, 57, 91, 48),  
('20222MBL0007', 85, 68, 48, 71, 94, 65, 80, 53, 78, 92),  
('20222MBL0008', 58, 79, 73, 59, 88, 90, 67, 70, 52, 86),  
('20222MBL0009', 88, 73, 54, 86, 50, 63, 77, 82, 69, 45),  
('20222MBL0010', 70, 58, 91, 74, 83, 58, 94, 72, 77, 61),  
('20222MBL0011', 79, 92, 67, 50, 72, 86, 55, 89, 60, 80),  
('20222MBL0012', 64, 80, 82, 58, 87, 71, 47, 95, 64, 83),  
('20222MBL0013', 89, 60, 88, 69, 52, 94, 62, 78, 84, 53),  
('20222MBL0014', 46, 84, 78, 83, 60, 75, 91, 68, 56, 75),  
('20222MBL0015', 76, 59, 63, 94, 76, 67, 84, 59, 73, 89);
```

SEM_4_result table

```
CREATE TABLE SEM_4_result (  
    StudentID VARCHAR(12) PRIMARY KEY,  
    Advanced_Predictive_Modeling INT,  
    Business_Forecasting INT,  
    Big_Data_Analytics INT,  
    Digital_Marketing_Analytics INT,  
    Financial_Risk_Management INT,  
    Marketing_Strategy INT,  
    Business_Process_Optimization INT,
```

```
Social_Media_Analytics INT,  
Decision_Support_Systems INT,  
Capstone_Project INT,  
Total_Marks INT,  
Percentage DECIMAL(5,2)  
);
```

```
INSERT INTO SEM_4_result (StudentID, Advanced_Predictive_Modeling, Business_Forecasting,  
Big_Data_Analytics, Digital_Marketing_Analytics, Financial_Risk_Management,  
Marketing_Strategy, Business_Process_Optimization, Social_Media_Analytics,  
Decision_Support_Systems, Capstone_Project)
```

```
VALUES
```

```
('20222MBL0001', 90, 85, 78, 92, 70, 88, 80, 85, 94, 100),  
('20222MBL0002', 67, 74, 87, 55, 94, 82, 65, 74, 60, 90),  
('20222MBL0003', 85, 77, 80, 79, 45, 60, 93, 61, 73, 88),  
('20222MBL0004', 76, 68, 62, 82, 50, 74, 77, 68, 78, 85),  
('20222MBL0005', 94, 82, 72, 90, 62, 79, 54, 83, 88, 95),  
('20222MBL0006', 56, 89, 85, 63, 76, 48, 89, 57, 65, 80),  
('20222MBL0007', 87, 48, 70, 71, 92, 68, 81, 53, 92, 75),  
('20222MBL0008', 62, 79, 73, 59, 88, 90, 67, 70, 86, 70),  
('20222MBL0009', 88, 54, 54, 86, 52, 63, 77, 82, 45, 60),  
('20222MBL0010', 74, 67, 91, 74, 83, 55, 94, 72, 77, 78),  
('20222MBL0011', 82, 90, 67, 50, 72, 86, 55, 89, 80, 85),  
('20222MBL0012', 65, 82, 80, 58, 87, 71, 47, 95, 83, 92),  
('20222MBL0013', 92, 88, 77, 69, 52, 94, 62, 78, 84, 87),  
('20222MBL0014', 48, 78, 78, 83, 60, 75, 91, 68, 56, 76),  
('20222MBL0015', 78, 65, 63, 94, 76, 67, 84, 59, 89, 82);
```

#Calculate Total_Marks and Percentage

```
UPDATE SEM_4_result
```

```
SET Total_Marks = Advanced_Predictive_Modeling + Business_Forecasting + Big_Data_Analytics  
+ Digital_Marketing_Analytics + Financial_Risk_Management + Marketing_Strategy +  
Business_Process_Optimization + Social_Media_Analytics + Decision_Support_Systems +  
Capstone_Project,  
Percentage = (Total_Marks / 1000) * 100;
```

```
select * from SEM_4_result
```

#Subject table

```
CREATE TABLE Subject (  
    SubjectCode VARCHAR(10) PRIMARY KEY,  
    SubjectName VARCHAR(255) NOT NULL,  
    SemesterNumber INT NOT NULL  
)
```

```
INSERT INTO Subject (SubjectCode, SubjectName,  
SemesterNumber) VALUES  
('MATH101', 'Mathematics', 1),  
('ENG101', 'English', 1),  
('CS101', 'Computer Science', 1),  
('HIST101', 'History', 1),  
('PHYS101', 'Physics', 1),  
('PSYCH101', 'Psychology', 1),  
('BS101', 'Business Studies', 1),
```

('CHEM101', 'Chemistry', 1),
('SPAN101', 'Spanish', 1),
('ENVSCI101', 'Environmental Science', 1);

INSERT INTO Subject (SubjectCode, SubjectName,
SemesterNumber) VALUES
('ALG102', 'Algebra', 2),
('LIT102', 'Literature', 2),
('CN102', 'Computer Networks', 2),
('WH102', 'World History', 2),
('BIO102', 'Biology', 2),
('SOC102', 'Sociology', 2),
('MKTG102', 'Marketing', 2),
('ORGCH102', 'Organic Chemistry', 2),
('FREN102', 'French', 2),
('ECO102', 'Ecology', 2);

INSERT INTO Subject (SubjectCode, SubjectName,
SemesterNumber) VALUES
('DA301', 'Data Analytics', 3),
('DS301', 'Decision Science', 3),
('MA301', 'Marketing Analytics', 3),
('FM301', 'Financial Modeling', 3),
('OM301', 'Operations Management', 3),
('BI301', 'Business Intelligence', 3),
('PM301', 'Predictive Modeling', 3),
('SM301', 'Strategic Management', 3);

```
('MLB301', 'Machine Learning for Business',  
3), ('SCA301', 'Supply Chain Analytics', 3);
```

```
INSERT INTO Subject (SubjectCode, SubjectName,  
SemesterNumber) VALUES  
('APM401', 'Advanced Predictive Modeling', 4),  
('BF401', 'Business Forecasting', 4),  
('BDA401', 'Big Data Analytics', 4),  
('DMA401', 'Digital Marketing Analytics', 4),  
('FRM401', 'Financial Risk Management', 4),  
('MS401', 'Marketing Strategy', 4),  
('BPO401', 'Business Process Optimization', 4),  
('SMA401', 'Social Media Analytics', 4),  
('DSS401', 'Decision Support Systems', 4),  
('CP401', 'Capstone Project', 4);
```

```
select * from Subject
```

Create FeesDetail table

```
CREATE TABLE FeesDetail (  
StudentID VARCHAR(12) PRIMARY KEY,  
PercentagePaid DECIMAL(5, 2) NOT NULL CHECK (PercentagePaid >= 0 AND PercentagePaid <= 100),  
TotalFees DECIMAL(10, 2) NOT NULL,  
PaymentDate DATE NOT NULL,  
LastDateOfPayment DATE NOT NULL
```

);

```
INSERT INTO FeesDetail (StudentID, PercentagePaid, TotalFees, PaymentDate,
LastDateOfPayment) VALUES
('20222MBL0001', 75, 600000, '2023-12-20', '2024-01-15'),
('20222MBL0002', 40, 600000, '2023-12-25', '2024-01-15'),
('20222MBL0003', 60, 600000, '2023-12-22', '2024-01-15'),
('20222MBL0004', 85, 600000, '2023-12-18', '2024-01-15'),
('20222MBL0005', 30, 600000, '2023-12-28', '2024-01-15'),
('20222MBL0006', 70, 600000, '2023-12-24', '2024-01-15'),
('20222MBL0007', 55, 600000, '2023-12-21', '2024-01-15'),
('20222MBL0008', 90, 600000, '2023-12-16', '2024-01-15'),
('20222MBL0009', 25, 600000, '2023-12-30', '2024-01-15'),
('20222MBL0010', 80, 600000, '2023-12-19', '2024-01-15'),
('20222MBL0011', 45, 600000, '2023-12-23', '2024-01-15'),
('20222MBL0012', 65, 600000, '2023-12-17', '2024-01-15'),
('20222MBL0013', 55, 600000, '2023-12-20', '2024-01-15'),
('20222MBL0014', 30, 600000, '2023-12-26', '2024-01-15'),
('20222MBL0015', 75, 600000, '2023-12-18', '2024-01-15);
```

Grade table

```
CREATE TABLE Grade (
StudentID VARCHAR(12) PRIMARY KEY,
Semester_1_Grade CHAR(1),
Semester_1_Percentage DECIMAL(5, 2),
```

```

        Semester_1_TotalMarks INT,
        Semester_2_Grade CHAR(1),
        Semester_2_Percentage DECIMAL(5, 2),
        Semester_2_TotalMarks INT,
        Semester_3_Grade CHAR(1),
        Semester_3_Percentage DECIMAL(5, 2),
        Semester_3_TotalMarks INT,
        Semester_4_Grade CHAR(1),
        Semester_4_Percentage DECIMAL(5, 2),
        Semester_4_TotalMarks INT
    );

```

```

INSERT INTO Grade (StudentID, Semester_1_Grade, Semester_1_Percentage,
Semester_1_TotalMarks,
Semester_2_Grade, Semester_2_Percentage, Semester_2_TotalMarks,
Semester_3_Grade, Semester_3_Percentage, Semester_3_TotalMarks,
Semester_4_Grade, Semester_4_Percentage, Semester_4_TotalMarks) VALUES
('20222MBL0001', 'A', 85, 850, 'B', 75, 750, 'A', 90, 900, 'A', 95, 950),
('20222MBL0002', 'C', 65, 650, 'B', 70, 700, 'A', 80, 800, 'B', 75, 750),
('20222MBL0003', 'A', 89, 890, 'A', 78, 780, 'B', 60, 600, 'B', 82, 820),
('20222MBL0004', 'B', 75, 750, 'C', 62, 620, 'A', 82, 820, 'A', 88, 880),
('20222MBL0005', 'A', 94, 940, 'A', 82, 820, 'A', 72, 720, 'A', 89, 890),
('20222MBL0006', 'C', 55, 550, 'A', 89, 890, 'C', 48, 480, 'B', 77, 770),
('20222MBL0007', 'B', 78, 780, 'C', 48, 480, 'B', 68, 680, 'A', 92, 920),
('20222MBL0008', 'C', 60, 600, 'B', 79, 790, 'A', 90, 900, 'A', 94, 940),
('20222MBL0009', 'A', 90, 900, 'C', 54, 540, 'C', 54, 540, 'B', 69, 690),
('20222MBL0010', 'B', 74, 740, 'A', 67, 670, 'A', 88, 880, 'C', 67, 670),

```

```
('20222MBL0011', 'A', 79, 790, 'A', 92, 920, 'B', 67, 670, 'B', 80, 800),  
('20222MBL0012', 'C', 62, 620, 'A', 80, 800, 'B', 82, 820, 'A', 95, 950),  
('20222MBL0013', 'B', 85, 850, 'A', 60, 600, 'A', 88, 880, 'B', 84, 840),  
('20222MBL0014', 'D', 47, 470, 'B', 78, 780, 'C', 68, 680, 'C', 56, 560),  
('20222MBL0015', 'A', 72, 720, 'C', 65, 650, 'B', 63, 630, 'A', 89, 890);
```

Select * from Grade

#Attendance table

```
CREATE TABLE Attendance (  
    StudentID VARCHAR(12) PRIMARY KEY,  
    JulyAttendance DECIMAL(5, 2),  
    AugustAttendance DECIMAL(5, 2),  
    SeptemberAttendance DECIMAL(5, 2),  
    OctoberAttendance DECIMAL(5, 2),  
    NovemberAttendance DECIMAL(5, 2),  
    DecemberAttendance DECIMAL(5, 2)  
);
```

```
INSERT INTO Attendance (StudentID, JulyAttendance, AugustAttendance,  
SeptemberAttendance, OctoberAttendance, NovemberAttendance, DecemberAttendance)  
VALUES  
('20222MBL0001', 95, 98, 100, 92, 88, 97),  
('20222MBL0002', 88, 75, 96, 82, 91, 100),  
('20222MBL0003', 100, 92, 80, 87, 94, 89),  
('20222MBL0004', 78, 86, 93, 75, 98, 80),
```

('20222MBL0005', 90, 100, 88, 95, 82, 91),
 ('20222MBL0006', 67, 78, 84, 90, 76, 93),
 ('20222MBL0007', 95, 85, 72, 89, 80, 97),
 ('20222MBL0008', 83, 92, 97, 84, 88, 78),
 ('20222MBL0009', 75, 80, 100, 78, 93, 85),
 ('20222MBL0010', 98, 89, 84, 97, 82, 91),
 ('20222MBL0011', 80, 94, 88, 90, 100, 78),
 ('20222MBL0012', 92, 78, 95, 86, 84, 88),
 ('20222MBL0013', 85, 96, 90, 78, 92, 85),
 ('20222MBL0014', 70, 85, 93, 75, 88, 100),
 ('20222MBL0015', 100, 92, 87, 89, 95, 78);

SHOW TABLES;

Tables_in_student_syst...	
Attendance	
Education_details	
FeesDetail	
Grade	
SEM_1_result	
SEM_2_result	
SEM_3_result	
SEM_4_result	
Student	
Subject	

select * from Student;

StudentID	FirstName	LastName	DateOfBirth	Gender	Email	HomeCity	HomeState	CourseObtained
20222MBL0001	shanti	chakma	1990-01-15	M	shanti@gmail.com	BAILHONGAL	Karnataka	Finance-Marketing
20222MBL0002	vidhya	kumari	1992-05-20	F	vidhya@gmail.com	Kolar gold field	Karnataka	Finance - Business Analytics
20222MBL0003	shobha	pattu	1991-08-12	F	shobha@gmail.com	BANGALORE	Karnataka	Finance-Marketing
20222MBL0004	madu	Dena	1993-04-30	F	madu@gmail.com	Bangalore	Karnataka	Finance - Business Analytics
20222MBL0005	roshni	sdevi	1990-11-22	F	roshni@gmail.com	Chowlahiriur	Karnataka	Finance - Business Analytics
20222MBL0006	jyoti	chakma	1992-09-18	F	jyoti@gmail.com	DHARMAVARAM	Andhra Pradesh	Finance - Business Analytics
20222MBL0007	malika	arjun	1994-03-05	M	malika@gmail.com	tumkur district	Karnataka	Finance-Marketing
20222MBL0008	Sophia	Smith	1991-06-14	F	Sophia@gmail.com	MADIKERI	Karnataka	Finance - Business Analytics
20222MBL0009	Daniel	Moore	1993-12-03	M	Daniel@gmail.com	SRAVANUR	Karnataka	Finance - Business Analytics
20222MBL0010	pinki	Robin	1992-02-25	F	pinki@gmail.com	Banglore rural	Karnataka	Finance - Human Resources
20222MBL0011	medina	Turner	1990-07-08	F	medina@gmail.com	MALUR	Karnataka	Finance - Business Analytics
20222MBL0012	sagar	Foster	1993-10-11	F	sagar@gmail.com	Chittoor	Karnataka	Finance-Marketing
20222MBL0013	jyoti	Bennett	1991-01-28	M	jyoti@gmail.com	Mysore	Karnataka	Finance - Business Analytics
20222MBL0014	amano	Hughes	1994-06-09	F	amano@gmail.com	Nayakanahatti	Karnataka	Finance - Human Resources
20222MBL0015	Noah	Carter	1992-04-16	M	Noah@gmail.com	Basapattana	Karnataka	Finance-Marketing

SELECT * FROM Subject ;

SubjectCode	SubjectName	SemesterNumber	
ALG102	Algebra	2	
APM401	Advanced Predictive Modeling	4	
BDA401	Big Data Analytics	4	
BF401	Business Forecasting	4	
BI301	Business Intelligence	3	
BIO102	Biology	2	
BPO401	Business Process Optimization	4	
BS101	Business Studies	1	
CHEM101	Chemistry	1	
CN102	Computer Networks	2	
CP401	Capstone Project	4	
CS101	Computer Science	1	
DA301	Data Analytics	3	
DMA401	Digital Marketing Analytics	4	
DS301	Decision Science	3	
DSS401	Decision Support Systems	4	
ECO102	Ecology	2	
ENG101	English	1	
ENVSCI101	Environmental Science	1	
FM301	Financial Modeling	3	
FREN102	French	2	

Subject 20

SELECT * FROM FeesDetail;

StudentID	PercentagePaid	TotalFees	PaymentDate	LastDateOfPayment	
20222MBL0001	75.00	600000.00	2023-12-20	2024-01-15	
20222MBL0002	40.00	600000.00	2023-12-25	2024-01-15	
20222MBL0003	60.00	600000.00	2023-12-22	2024-01-15	
20222MBL0004	85.00	600000.00	2023-12-18	2024-01-15	
20222MBL0005	30.00	600000.00	2023-12-28	2024-01-15	
20222MBL0006	70.00	600000.00	2023-12-24	2024-01-15	
20222MBL0007	55.00	600000.00	2023-12-21	2024-01-15	
20222MBL0008	90.00	600000.00	2023-12-16	2024-01-15	
20222MBL0009	25.00	600000.00	2023-12-30	2024-01-15	
20222MBL0010	80.00	600000.00	2023-12-19	2024-01-15	
20222MBL0011	45.00	600000.00	2023-12-23	2024-01-15	
20222MBL0012	65.00	600000.00	2023-12-17	2024-01-15	
20222MBL0013	55.00	600000.00	2023-12-20	2024-01-15	
20222MBL0014	30.00	600000.00	2023-12-26	2024-01-15	
20222MBL0015	75.00	600000.00	2023-12-18	2024-01-15	
NULL	NULL	NULL	NULL	NULL	

select * from SEM_1_result;

StudentID	Mathematics	English	Computer_Scienc...	History	Physics	Psychology	Business_Studies	Chemistry	Spanish	Environmental_Scienc...	
20222MBL0001	78	85	92	67	75	89	80	88	72	93	
20222MBL0002	60	72	87	55	91	78	65	76	82	47	
20222MBL0003	89	68	75	79	45	57	93	61	90	70	
20222MBL0004	73	88	60	82	47	84	75	68	94	55	
20222MBL0005	94	50	72	90	64	79	54	83	43	88	
20222MBL0006	51	93	85	63	76	42	89	57	91	48	
20222MBL0007	84	67	48	71	94	65	80	53	78	92	
20222MBL0008	56	82	73	59	88	90	67	70	52	86	
20222MBL0009	90	71	54	86	50	63	77	82	69	45	
20222MBL0010	69	49	91	74	83	58	94	72	77	61	
20222MBL0011	79	94	67	50	72	86	55	89	60	80	
20222MBL0012	62	79	80	58	87	71	47	95	64	83	
20222MBL0013	85	60	89	69	52	94	62	78	84	53	
20222MBL0014	47	86	78	83	60	75	91	68	56	75	
20222MBL0015	72	55	63	94	76	67	84	59	73	89	
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	

select * from SEM_2_result;

StudentID	Mathematics	English	Computer_Scienc...	History	Physics	Psychology	Business_Studies	Chemistry	Spanish	Environmental_Scienc...	
20222MBL0001	78	85	92	67	75	89	80	88	72	93	
20222MBL0002	60	72	87	55	91	78	65	76	82	47	
20222MBL0003	89	68	75	79	45	57	93	61	90	70	
20222MBL0004	73	88	60	82	47	84	75	68	94	55	
20222MBL0005	94	50	72	90	64	79	54	83	43	88	
20222MBL0006	51	93	85	63	76	42	89	57	91	48	
20222MBL0007	84	67	48	71	94	65	80	53	78	92	
20222MBL0008	56	82	73	59	88	90	67	70	52	86	
20222MBL0009	90	71	54	86	50	63	77	82	69	45	
20222MBL0010	69	49	91	74	83	58	94	72	77	61	
20222MBL0011	79	94	67	50	72	86	55	89	60	80	
20222MBL0012	62	79	80	58	87	71	47	95	64	83	
20222MBL0013	85	60	89	69	52	94	62	78	84	53	
20222MBL0014	47	86	78	83	60	75	91	68	56	75	
20222MBL0015	72	55	63	94	76	67	84	59	73	89	

select * from SEM_3_result;

StudentID	Data_Analytics	Decision_Scienc...	Marketing_Analyti...	Financial_Modeli...	Operations_Managem...	Business_Intelligen...	Predictive_Modeli...	Strategic_Managem...	Machine_Learning_for_Busin...	Software_Engineeri...	Project_Manageme...
20222MBL0001	87	78	91	68	75	88	80	85	92	78	
20222MBL0002	62	70	84	55	89	77	65	74	82	47	
20222MBL0003	80	65	77	79	42	55	93	61	88	76	
20222MBL0004	73	82	60	82	47	84	75	68	94	51	
20222MBL0005	92	56	72	90	64	79	54	83	43	88	
20222MBL0006	54	87	85	63	76	42	89	57	91	47	
20222MBL0007	85	68	48	71	94	65	80	53	78	59	
20222MBL0008	58	79	73	59	88	90	67	70	52	88	
20222MBL0009	68	73	54	86	50	63	77	82	69	47	
20222MBL0010	70	58	91	74	83	58	94	72	77	61	
20222MBL0011	79	92	67	50	72	86	55	89	60	86	
20222MBL0012	64	80	82	58	87	71	47	95	64	86	
20222MBL0013	89	60	88	69	52	94	62	78	84	55	
20222MBL0014	46	84	78	78	60	75	91	68	56	75	
20222MBL0015	78	59	63	94	76	67	84	59	73	86	

select * from SEM_4_result;

StudentID	Advanced_Predictive_Model...	Business_Forecasti...	Big_Data_Analytic...	Digital_Marketing_Analyt...	Financial_Risk_Managem...	Marketing_Strate...	Business_Process_Optimizat...	Social_Media_An...	Cloud_Technolog...	Blockchain_Technolo...	Artificial_Intelli...
20222MBL0001	90	85	78	92	70	88	80	85	90	70	85
20222MBL0002	67	74	87	55	94	82	65	74	82	74	
20222MBL0003	85	77	80	79	45	60	93	61	88	76	
20222MBL0004	76	68	62	82	50	50	74	77	68		
20222MBL0005	94	82	72	90	62	79	54	83	83		
20222MBL0006	56	89	85	63	76	48	89	57	89	57	
20222MBL0007	87	48	70	71	92	68	81	81	53		
20222MBL0008	62	79	73	59	88	90	67	70	70		
20222MBL0009	68	54	54	86	52	63	77	82			
20222MBL0010	74	67	91	74	83	55	94	72			
20222MBL0011	82	90	67	50	72	86	55	89			
20222MBL0012	65	82	80	58	87	71	47	95			
20222MBL0013	92	88	77	69	52	94	62	78			
20222MBL0014	48	78	78	83	60	75	91	68			
20222MBL0015	78	65	63	94	76	67	84	59			

SELECT * FROM Grade ;

StudentID	Semester_1_Grade	Semester_1_Percentage	Semester_1_TotalMarks	Semester_2_Grade	Semester_2_Percentage	Semester_2_TotalMarks	Semester_3_Grade	Semester_3_Percentage	Semester_3_TotalMarks	Semester_4_Grade	Semester_4_Percentage
20222MBL0001	A	85.00	850	B	75.00	750	A	90.00	900		
20222MBL0002	C	65.00	650	B	70.00	700	A	80.00	800		
20222MBL0003	A	89.00	890	A	78.00	780	B	60.00	600		
20222MBL0004	B	75.00	750	C	62.00	620	A	82.00	820		
20222MBL0005	A	94.00	940	A	82.00	820	A	72.00	720		
20222MBL0006	C	55.00	550	A	89.00	890	C	48.00	480		
20222MBL0007	B	78.00	780	C	48.00	480	B	68.00	680		
20222MBL0008	C	60.00	600	B	79.00	790	A	90.00	900		
20222MBL0009	A	90.00	900	C	54.00	540	C	54.00	540		
20222MBL0010	B	74.00	740	A	67.00	670	A	98.00	980		
20222MBL0011	A	79.00	790	A	92.00	920	B	67.00	670		
20222MBL0012	C	62.00	620	A	80.00	800	B	82.00	820		
20222MBL0013	B	85.00	850	A	60.00	600	A	88.00	880		
20222MBL0014	D	47.00	470	B	78.00	780	C	68.00	680		
20222MBL0015	A	72.00	720	C	65.00	650	B	63.00	630		

SELECT * FROM Attendance;

StudentID	JulyAttendance	AugustAttendance	SeptemberAttendance	OctoberAttendance	NovemberAttendance	DecemberAttendance
20222MBL0001	95.00	98.00	100.00	92.00	88.00	97.00
20222MBL0002	88.00	75.00	96.00	82.00	91.00	100.00
20222MBL0003	100.00	92.00	80.00	87.00	94.00	89.00
20222MBL0004	78.00	86.00	93.00	75.00	98.00	80.00
20222MBL0005	90.00	100.00	88.00	95.00	82.00	91.00
20222MBL0006	67.00	78.00	84.00	90.00	76.00	93.00
20222MBL0007	95.00	85.00	72.00	89.00	80.00	97.00
20222MBL0008	83.00	92.00	97.00	84.00	88.00	78.00
20222MBL0009	75.00	80.00	100.00	78.00	93.00	85.00
20222MBL0010	98.00	89.00	84.00	97.00	82.00	91.00
20222MBL0011	80.00	94.00	88.00	90.00	100.00	78.00
20222MBL0012	92.00	78.00	95.00	86.00	84.00	88.00
20222MBL0013	85.00	96.00	90.00	78.00	92.00	85.00
20222MBL0014	70.00	85.00	93.00	75.00	88.00	100.00
20222MBL0015	100.00	92.00	87.00	89.00	95.00	78.00

select * from Education_Details;

StudentID	X_Percentage	X_Year_of_Passing	XII_Percentage	XII_Year_of_Passing	Grad_Stream	Grad_College	Grad_University	Graduation_Percent
20222MBL0001	77.12	2017	77.50	2019	B.Com	J.S.S SHRI MANJUN...	KARNATAK UNIVERSITY	76.30
20222MBL0002	72.00	2016	64.33	2018	BBA	SRI BHAGAWAN MA...	BENGALURU NORTH UNIVERSITY	79.63
20222MBL0003	67.04	2016	56.67	2018	B.Com	KLES NJALINGAPPA...	BENGALURU CENTRAL UNIVERSITY	74.85
20222MBL0004	76.16	2017	76.33	2019	B.Com	Sheshadipuram arts...	BENGALURU CENTRAL UNIVERSITY	80.37
20222MBL0005	74.08	2019	88.33	2019	B.Com	SAHYADRI COMMER...	KUVEMPU UNIVERSITY	82.03
20222MBL0006	67.40	2017	88.70	2019	BBA	SRI SAI DEGREE CO...	VIJAYANAGARA SRI KRISHNADEVARAYA UNI...	77.40
20222MBL0007	87.68	2017	75.17	2019	BA	UNIVERSAL SCHOOL...	BANGALORE UNIVERSITY	86.71
20222MBL0008	89.60	2017	90.50	2019	B.Com	ST AGNES COLLEGE	MANGALORE UNIVERSITY	85.25
20222MBL0009	81.44	2016	86.50	2018	B.Com	CENTRAL COMMER...	UNIVERSITY OF MYSORE	85.72
20222MBL0010	74.56	2017	80.83	2019	B.Com	SOUNDARY INSTIT...	BANGALORE UNIVERSITY	87.72
20222MBL0011	74.72	2017	80.66	2019	BCA	NEW HORIZON COL...	BENGALURU NORTH UNIVERSITY	84.76
20222MBL0012	73.15	2016	64.50	2018	B.Com	S.V. UNIVERSITY TIR...	SRI VENKATESWARA UNIVERSITY	64.33
20222MBL0013	83.04	2017	90.33	2019	B.Com	DE PAUL FIRST GRA...	UNIVERSITY OF MYSORE	83.35
20222MBL0014	75.36	2017	78.33	2019	B.Com	SRI SIDDHARTHA IN...	TUMKUR UNIVERSITY	74.31
20222MBL0015	56.16	2015	63.00	2017	B.Sc	V N COLLEGE HOSP...	VIJAYANAGARA SRI KRISHNADEVARAYA UNI...	69.40

#1 find the highest attendance for each student:

SELECT

StudentID,

MAX(JulyAttendance) AS MaxJulyAttendance,

MAX(AugustAttendance) AS MaxAugustAttendance,

MAX(SeptemberAttendance) AS MaxSeptemberAttendance

FROM Attendance

GROUP BY StudentID;

OUTPUT

StudentID	MaxJulyAttendance	MaxAugustAttendance	MaxSeptemberAttendance	
20222MBL0001	95.00	98.00	100.00	
20222MBL0002	88.00	75.00	96.00	
20222MBL0003	100.00	92.00	80.00	
20222MBL0004	78.00	86.00	93.00	
20222MBL0005	90.00	100.00	88.00	
20222MBL0006	67.00	78.00	84.00	
20222MBL0007	95.00	85.00	72.00	
20222MBL0008	83.00	92.00	97.00	
20222MBL0009	75.00	80.00	100.00	
20222MBL0010	98.00	89.00	84.00	
20222MBL0011	80.00	94.00	88.00	
20222MBL0012	92.00	78.00	95.00	
20222MBL0013	85.00	96.00	90.00	
20222MBL0014	70.00	85.00	93.00	
20222MBL0015	100.00	82.00	87.00	

Result 33

#with left join

SELECT

Attendance.StudentID,

Student.FirstName,

MAX(JulyAttendance) AS MaxJulyAttendance,

MAX(AugustAttendance) AS MaxAugustAttendance,

MAX(SeptemberAttendance) AS MaxSeptemberAttendance

FROM Attendance

left JOIN Student ON Student.StudentID =

Attendance.StudentID GROUP BY Attendance.StudentID,

Student.FirstName;

StudentID	FirstName	MaxJulyAttendance	MaxAugustAttendance	MaxSeptemberAttendance	
20222MBL0001	shanti	95.00	98.00	100.00	
20222MBL0002	vidhya	88.00	75.00	96.00	
20222MBL0003	shobha	100.00	92.00	80.00	
20222MBL0004	madu	78.00	86.00	93.00	
20222MBL0005	roshni	90.00	100.00	88.00	
20222MBL0006	jiya	67.00	78.00	84.00	
20222MBL0007	malika	95.00	85.00	72.00	
20222MBL0008	Sophia	83.00	92.00	97.00	
20222MBL0009	Daniel	75.00	80.00	100.00	
20222MBL0010	pinki	98.00	89.00	84.00	
20222MBL0011	medina	80.00	94.00	88.00	
20222MBL0012	sagar	92.00	78.00	95.00	
20222MBL0013	jyoti	85.00	96.00	90.00	
20222MBL0014	amano	70.00	85.00	93.00	
20222MBL0015	Noah	100.00	82.00	87.00	

Result 34

#Finding students who have attended all months with at least 80% attendance:

```
SELECT Attendance.StudentID, Student.FirstName  
FROM Attendance  
LEFT JOIN Student ON Student.StudentID = Attendance.StudentID WHERE  
JulyAttendance >= 80 AND  
AugustAttendance >= 80 AND  
SeptemberAttendance >= 80 AND  
OctoberAttendance >= 80 AND  
NovemberAttendance >= 80 AND  
DecemberAttendance >= 80;
```

#Retrieve the total percentage fees paid by each student along with their details:

```
SELECT      Student.StudentID,      FirstName,      LastName,      PercentagePaid,  
PaymentDate FROM Student  
  
JOIN FeesDetail ON Student.StudentID = FeesDetail.StudentID;
```

StudentID	FirstName	LastName	PercentagePaid	PaymentDate
20222MBL0001	shanti	chakma	75.00	2023-12-20
20222MBL0002	vidhya	kumari	40.00	2023-12-25
20222MBL0003	shobha	pattu	60.00	2023-12-22
20222MBL0004	madu	Dena	85.00	2023-12-18
20222MBL0005	roshmi	sdevi	30.00	2023-12-28
20222MBL0006	jiya	chakma	70.00	2023-12-24
20222MBL0007	malika	arjun	55.00	2023-12-21
20222MBL0008	Sophia	Smith	90.00	2023-12-16
20222MBL0009	Daniel	Moore	25.00	2023-12-30
20222MBL0010	pinki	Robin	80.00	2023-12-19
20222MBL0011	medina	Turner	45.00	2023-12-23
20222MBL0012	sagar	Foster	65.00	2023-12-17
20222MBL0013	jyoti	Bennett	55.00	2023-12-20
20222MBL0014	amano	Hughes	30.00	2023-12-26
20222MBL0015	Noah	Carter	75.00	2023-12-18

#Calculate the total marks obtained by each student in each semester:

```
SELECT StudentID,  
       SUM(Semester_1_TotalMarks) AS TotalMarks_Semester_1,  
       SUM(Semester_2_TotalMarks) AS TotalMarks_Semester_2,  
       SUM(Semester_3_TotalMarks) AS TotalMarks_Semester_3,  
       SUM(Semester_4_TotalMarks) AS TotalMarks_Semester_4  
FROM Grade  
GROUP BY StudentID;
```

StudentID	TotalMarks_Semester_1	TotalMarks_Semester...	TotalMarks_Semester...	TotalMarks_Semester...	
20222MBL0001	850	750	900	950	
20222MBL0002	650	700	800	750	
20222MBL0003	890	780	600	820	
20222MBL0004	750	620	820	880	
20222MBL0005	940	820	720	890	
20222MBL0006	550	890	480	770	
20222MBL0007	780	480	680	920	
20222MBL0008	600	790	900	940	
20222MBL0009	900	540	540	690	
20222MBL0010	740	670	880	670	
20222MBL0011	790	920	670	800	
20222MBL0012	620	800	820	950	
20222MBL0013	850	600	880	840	
20222MBL0014	470	780	680	560	
20222MBL0015	720	650	630	800	

#List students who obtained a grade 'A' in all semesters:

```
SELECT Grade.StudentID, Student.FirstName  
FROM Grade  
JOIN Student ON Grade.StudentID = Student.StudentID  
WHERE Semester_1_Grade = 'A' AND  
      Semester_2_Grade = 'A' AND  
      Semester_3_Grade = 'A' AND Semester_4_Grade = 'A';
```

StudentID	FirstName
20222MBL0005	roshmi

#Finding the students with the highest percentage paid and their details:

```

SELECT Student.StudentID, Student.FirstName, Student.LastName,
FeesDetail.PercentagePaid
FROM FeesDetail
JOIN Student ON FeesDetail.StudentID = Student.StudentID
ORDER BY PercentagePaid DESC LIMIT 5;

```

StudentID	FirstName	LastName	PercentagePaid
20222MBL0008	Sophia	Smith	90.00
20222MBL0004	madu	Dena	85.00
20222MBL0010	pinki	Robin	80.00
20222MBL0001	shanti	chakma	75.00
20222MBL0015	Noah	Carter	75.00

#Rank students based on their overall percentages:

```

SELECT StudentID, RANK() OVER (ORDER BY (Semester_1_Percentage +
Semester_2_Percentage + Semester_3_Percentage +
Semester_4_Percentage) / 4 DESC) AS OverallRank
FROM Grade;

```

StudentID	OverallRank
20222MBL0001	1
20222MBL0005	2
20222MBL0008	3
20222MBL0012	4
20222MBL0011	5
20222MBL0013	6
20222MBL0003	7
20222MBL0004	8
20222MBL0010	9
20222MBL0002	10
20222MBL0015	11
20222MBL0007	12
20222MBL0006	13
20222MBL0009	14
20222MBL0014	15

#Calculate the average percentage for each semester:

```

SELECT
    AVG(Semester_1_Percentage) AS Avg_Semester_1,
    AVG(Semester_2_Percentage) AS Avg_Semester_2,
    AVG(Semester_3_Percentage) AS Avg_Semester_3,
    AVG(Semester_4_Percentage) AS Avg_Semester_4
FROM Grade;

```

Avg_Semester_1	Avg_Semester_2	Avg_Semester_3	Avg_Semester_4
74.000000	71.933333	73.333333	82.133333

#Calculate the total number of students in each state:

```

SELECT HomeState, COUNT(*) as StudentCount
FROM Student
GROUP BY HomeState;

```

HomeState	StudentCount
Karnataka	14
Andhra Pradesh	1

#Find students who have paid more than the average fees percentage:

```
SELECT FeesDetail.StudentID  
FROM FeesDetail  
WHERE      FeesDetail.PercentagePaid      >      (SELECT  
AVG(PercentagePaid) FROM FeesDetail);
```

StudentID
20222MBL0001
20222MBL0003
20222MBL0004
20222MBL0006
20222MBL0008
20222MBL0010
20222MBL0012
20222MBL0015
NULL