CREATE  TABLE STUDENT\_PERSONAL\_INFO  
(  
 STUDENT\_ID VARCHAR(5),  
 STUDENT\_NAME VARCHAR(30),  
 DATE\_OF\_BIRTH  DATE,  
 GUARDIAN\_NAME VARCHAR(30),  
 ADDRESS VARCHAR(50),  
 CONTACT\_NO decimal(12,0),  
 MAIL\_ID  VARCHAR(30),  
 GENDER CHAR(1),  
 CONSTRAINT STUD\_PERS\_INFO\_PK PRIMARY KEY(STUDENT\_ID)  
);

CREATE TABLE STUDENT\_OFFICIAL\_INFO  
(  
  STUDENT\_ID VARCHAR(5),  
  STANDARD  VARCHAR(3),  
  TRANSPORT  CHAR(1),  
  NET\_FEES  decimal(7,2),  
  CONSTRAINT STUD\_OFF\_INFO\_PK PRIMARY KEY(STUDENT\_ID),  
  CONSTRAINT STUD\_OFF\_INFO\_FK FOREIGN KEY(STUDENT\_ID) REFERENCES   STUDENT\_PERSONAL\_INFO(STUDENT\_ID)  
);

CREATE TABLE STUDENT\_FEES\_INFO  
(  
  FEE\_ID VARCHAR(5),  
  STANDARD varchar(3),  
  STDFEES decimal(8,2),  
  TRANSPORTFEE decimal(8,2),  
  CONSTRAINT STUD\_FEE\_INFO\_PK PRIMARY KEY(FEE\_ID)  
);

CREATE TABLE STUDENT\_MARK\_INFO  
(  
  STUDENT\_ID varchar(5),  
  TAMIL\_MAR INTEGER CHECK(TAMIL\_MARK BETWEEN 0 AND 100),  
  HINDI\_MARK INTEGER CHECK(HINDI\_MARK BETWEEN 0 AND 100),  
  SCIENCE\_MARK INTEGER CHECK(SCIENCE\_MARK BETWEEN 0 AND 100),  
  SOCIAL\_MARK INTEGER CHECK(SOCIAL\_MARK BETWEEN 0 AND 100),  
  MATHS\_MARK INTEGER CHECK(MATHS\_MARK BETWEEN 0 AND 100),  
  CONSTRAINT STUD\_MARK\_INFO\_PK PRIMARY KEY(STUDENT\_ID)  
);

CREATE TABLE STUDENT\_GRADE\_INFO  
(  
  STUDENT\_ID varchar(5),  
  TOTAL\_MARK integer CHECK(TOTAL\_MARK BETWEEN 0 AND 500),  
  AVERAGE\_MARK integer CHECK(AVERAGE\_MARK BETWEEN 0 AND 100),  
  GRADE CHAR(1),  
  CONSTRAINT STUD\_GRADE\_INFO\_PK PRIMARY KEY(STUDENT\_ID)  
);

[10:40 AM] Parvathy Muthuvelan (Guest)

 insert into student\_personal\_info values('s01','sujit koley','1999-06-10','swapan koley','hooghly',9051296438,'sujit9@gmail.com','M');  
insert into student\_personal\_info values('s02','samar pal','1998-05-10','somnath pal','nodiya',9051286438,'samar9@gmail.com','M');  
insert into student\_personal\_info values('s03','tapasi das','1998-04-10','tapan roy','kolkata',9058296438,'tapasi9@gmail.com','F');  
insert into student\_personal\_info values('s04','soumik ghosh','1999-02-10','sumanta ghosh','hooghly',9051236438,'soumik9@gmail.com','M');  
insert into student\_personal\_info values('s05','krish mondal','1999-07-10','swapan koley','hooghly',9051296438,'sujit9@gmail.com','M');  
insert into student\_personal\_info values('s06','chiru das','1998-06-10','somen das','midnapore',9056296438,'chiru9@gmail.com','M');    
insert into student\_official\_info values('s01','I','Y',3000);  
insert into student\_official\_info values('s02','II','N',3000);  
insert into student\_official\_info values('s03','III','Y',5000);  
insert into student\_official\_info values('s04','I','N',2000);  
insert into student\_official\_info values('s05','II','Y',4000);  
insert into student\_official\_info values('s06','I','Y',3000);   
insert into student\_fees\_info values('f01','I',2000,1000);  
insert into student\_fees\_info values('f02','II',3000,1000);  
insert into student\_fees\_info values('f03','III',4000,1000);  insert into STUDENT\_MARK\_INFO values('s01',80,90,80,70,89);  
insert into STUDENT\_MARK\_INFO values('s02',84,90,89,80,80);  
insert into STUDENT\_MARK\_INFO values('s03',80,90,80,90,80);  
insert into STUDENT\_MARK\_INFO values('s04',70,90,90,80,85);  
insert into STUDENT\_MARK\_INFO values('s05',98,90,90,90,89);  
insert into STUDENT\_MARK\_INFO values('s06',39,40,30,45,30);  insert into student\_grade\_info values('s01',409,81,'E');  
insert into student\_grade\_info values('s02',423,84,'E');  
insert into student\_grade\_info values('s03',420,84,'E');  
insert into student\_grade\_info values('s04',415,83,'E');  
insert into student\_grade\_info values('s05',457,91,'O');  
insert into student\_grade\_info values('s06',184,36,'F');

Simple Questions:

**Problem # 1:**

Write a query to display total number of students in each standard.

**Problem # 2:**

Write a query to display student id, student name, date of birth, gaurdian name by sorting date of birth in ascending.

**Problem # 3:**

Write a query which will display student id ,student name and display the output in the below format

    Student Id of <Student\_Name> is <Student\_Id>

**Problem # 4:**

Write a query to display the students name whose name starts with  J

**Problem # 5:**

Write a query to display the student id ,name who got the grade 'C'

**Problem # 6:**

write a query which will display the total  number of students using transport

**Problem # 7:**

write a query to display the student list who are using transport

**Problem # 8:**

Write a query to display the total amount of fees paid by the students.

**Problem # 9:**

Write a query to display the details of male students.

**Problem # 10:**

Write a query to display details of the students who had failed.

(Hint: The Students who failed  will get ‘F’ Grade)

**Average Questions:**

**Problem # 1:**

Write the query to display all the students details .

(Hint: The Student Details Should be Student Personal and Official Information)

**Problem # 2:**

Write a query to display student id,student\_name,marks,total,average,grade of all students

**Problem # 3:**

Write a query to display student id ,student name  and age of the students

**Problem # 4:**

Write a query to display the name and id of the student who is paying the highest fees.

**Problem # 5:**

Write a query to display the student id  who are eligible for scholarship

(Hint The criteria for Scholarship  is above 85 marks for all the subjects)

**Problem # 6:**

Write a query which will display the total transport  fees collected for all the standards

**Problem # 7:**

Write a query which will display the net\_fees in $ format

Hint:

RS.53.47= 1 DOLLAR

RS.69.98 = 1 EURO

RS.86.59 = 1 POUND

**Problem # 8:**

Write a query which will check the StdFees  if StdFees is 26000 display ‘High’, if StdFees is 24000 display ‘Moderate’, if StdFees is 22000 display ‘Average’ , if StdFees is 20000 display ‘Low’  , if StdFees is 18000 display ‘Very Low’  otherwise display ‘Invalid’.

**Problem # 10:**

Write a query which will check the Student Id, Standard, if Standard is ‘V’ display ‘Fifth Standard’, if Standard is ‘IV’ display ‘Fourth Standard, if Standard is ‘III’ display ‘Third Standard, if Standard is ‘II’ display ‘Second Standard, if Standard is ‘I’ display ‘First Standard.

**Complex Questions:**

**Problem # 1:**

Write a query which will display the student details, fees details and grade details of the students who had  availed for transport and who had failed.

(Hint: The Grade id ’F’ for those students who failed)

**Problem # 2:**

Write a query which will  display the Standard Fees.

(Hint Don’t Use the Students\_Fees\_Info  to retrieve the standard fees)

Write a query which will display the student details, fees details and grade details of the students whose average is between 60 and 85.

**Problem # 4:**

Write a query which will display the student details who the second highest total.

**Problem # 5:**

Write a query which will display allthe student details

(Hint :Student details should have Personal,Official,Mark and Grade Information