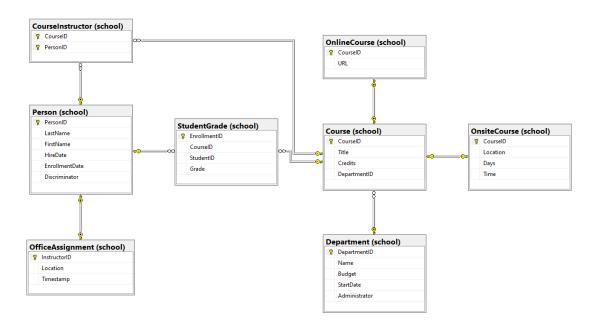
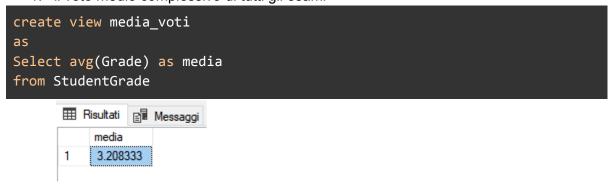
Esercizio SQL

Prendere in considerazione il database School rappresentato dal seguente diagramma



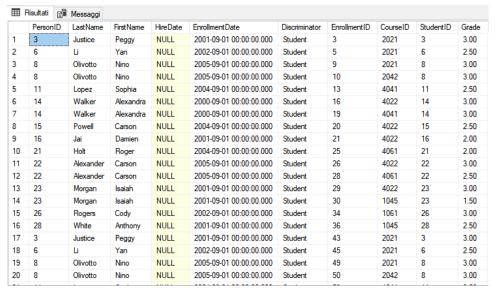
e scrivere le istruzioni SQL necessarie per estrarre le seguenti informazioni:

1. il voto medio complessivo di tutti gli esami



2. gli studenti che hanno una media dei loro esami inferiore alla media complessiva degli esami

```
select * from Person
inner join StudentGrade
on Person.PersonID = StudentGrade.StudentID
where Discriminator = 'Student' and StudentGrade.Grade < (Select media
from media_voti )</pre>
```

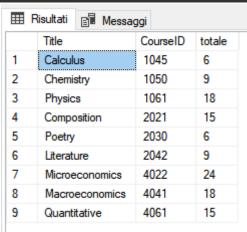


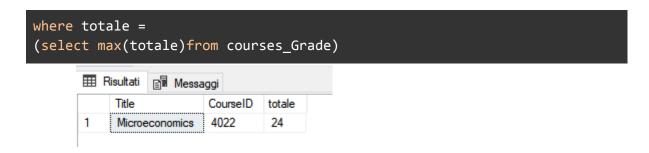
3. lo studente con la media più alta

select studentId, avg(grade) as media from school.StudentGrade group by studentId having avg(grade) = (select max(media) from (select studentId, avg(grade) as media from school.StudentGrade group by studentId) as maxavg)

4. il corso che ha fatto più esami

```
create view courses_Grade
as
select Title,Course.CourseID, count(*) as totale
from Course
inner join StudentGrade on
StudentGrade.CourseID = Course.CourseID
group by Course.Title,Course.CourseID
```





5. i docenti del corso che ha fatto più esami

```
select * from Person
inner join CourseInstructor
on Person.PersonID = CourseInstructor.PersonID
where Discriminator = 'Instructor' and CourseInstructor.CourseID in
(select CourseID from courses_Grade where totale =
  (select max(totale)from courses_Grade))
```

Ⅲ	Risultati	Messaggi							
	PersonII	LastName	FirstName	HireDate	Enrollment Date	Discriminator	CourseID	PersonID	
1	18	Zheng	Roger	2004-02-12 00:00:00.000	NULL	Instructor	4022	18	

6. i corsi che iniziano con la A

```
select title from Course
where title like 'A%'
```

7. i corsi che si tengono il lunedì 1°metodo:

```
select * from Course
inner join OnsiteCourse
on Course.CourseID = OnsiteCourse.CourseID
where DATENAME(dw,DATEPART(YEAR,OnsiteCourse.Time)) = 'Monday'
```

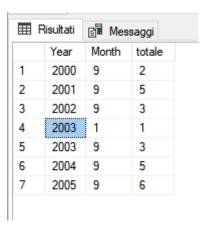
```
select * from Course
inner join OnsiteCourse
on Course.CourseID = OnsiteCourse.CourseID
where OnsiteCourse.Days like '%M%'
```

	0 10	Messaggi	O 1::	D	0 10		_	_
	CourseID	Title	Credits	DepartmentID	CourseID	Location	Days	Time
1	1045	Calculus	4	7	1045	121 Smith	MWHF	1900-01-01 15:30:00
2	1050	Chemistry	4	1	1050	123 Smith	MTWH	1900-01-01 11:30:00
3	2042	Literature	4	2	2042	225 Adams	MTWH	1900-01-01 11:00:00
4	4022	Microeconomics	3	4	4022	23 Williams	MWF	1900-01-01 09:00:00

8. per ogni mese dell'anno, il numero di studenti che si sono iscritti in quel mese

Select MONTH(EnrollmentDate) as Mese, count(*) as NumeroStud

from Person Group by MONTH(EnrollmentDate)



9. gli studenti che si sono iscritti di luned

select * from Person
where DATENAME(dw,DATEPART(YEAR,Person.EnrollmentDate)) = 'Monday'

