#### Assignment Project Exam Help

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Add Me Chatgregates
Practice Queries

CS430/630 Lecture 9

```
Students (<u>sid:integer</u>, sname:string, age:integer)
Enrolled (<u>sid:integer</u>, <u>cid:integer</u>, grade:integer)
Courses(<u>cid:integer</u>, cname:string, credits:integer)
```

"Find the average age of stedents taking some course with Helplits"

Simple solution, but if same the sent passent passent

Add WeChat powcoder

SELECT AVG (S.age)
FROM Students S, Enrolled E, Courses C
WHERE S.sid = E.sid AND E.cid = C.cid AND C.credits = 3



```
Students (<u>sid:integer</u>, sname:string, age:integer)
Enrolled (<u>sid:integer</u>, <u>cid:integer</u>, grade:integer)
Courses(<u>cid:integer</u>, cname:string, credits:integer)
"Find the average age of signment in Project Example Project of Signment in String Some Course With Helphits"
```

```
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SELECT AVG (S1.age)
FROM Students S1 Add WeChat powcoder
WHERE S1.sid IN

(SELECT S.sid
FROM Students S, Enrolled E, Courses C
WHERE S.sid = E.sid AND E.cid = C.cid AND
C.credits = 3)
```



```
Students (<u>sid:integer</u>, sname:string, age:integer)
Enrolled (<u>sid:integer</u>, <u>cid:integer</u>, grade:integer)
Courses(<u>cid:integer</u>, cname:string, credits:integer)
```

"Find the average age of electrolled students for each course with at least 10 enrolled students. List the course name(s) as well."

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SELECT C.cname, AVG(S.age)
FROM Students S, Enfolded W Cohetspowcoder
WHERE S.sid = E.sid AND E.cid = C.cid
GROUP BY C.cid, C.cname
HAVING COUNT(\*)>=10



```
Students (<u>sid:integer</u>, sname:string, age:integer)
Enrolled (<u>sid:integer</u>, <u>cid:integer</u>, grade:integer)
Courses(<u>cid:integer</u>, cname:string, credits:integer)
```

"Find the average age over enrolled students that are 25 of younger for each course with at least 10 enrolled students (of any age)" https://powcoder.com

```
SELECT C.cname, AVG(S.age)
FROM Students S, Enaded W, Cohedspowcoder
WHERE S.sid = E.sid AND E.cid = C.cid AND S.age <= 25
GROUP BY C.cid, C.cname
HAVING 10 <= (SELECT COUNT(*)
FROM Enrolled E1
WHERE E1.cid = C.cid)
```



```
Students (<u>sid:integer</u>, sname:string, age:integer)
Enrolled (<u>sid:integer</u>, <u>cid:integer</u>, grade:integer)
Courses(<u>cid:integer</u>, cname:string, credits:integer)
```

"Find the average age of electrolled students for each course satisfying following two conditions: (1) course has at least 10 enrolled students and (2) average enrolled student age higher than 20 https://powcoder.com

SELECT C.cname, AVG(S.age) Chat powcoder
FROM Students S, Enrolled E, Courses C
WHERE S.sid = E.sid AND E.cid = C.cid
GROUP BY C.cid, C.cname
HAVING AVG(S.age) > 20 AND COUNT(\*) >= 10



```
Students (<u>sid:integer</u>, sname:string, age:integer)
Enrolled (<u>sid:integer</u>, <u>cid:integer</u>, grade:integer)
Courses(<u>cid:integer</u>, cname:string, credits:integer)
```

"Find the average age of eigented students for each course satisfying following two conditions: (1) course has at least 10 enrolled students and (2) at least one enrolled student has age higher than the student has age higher than the students."/powcoder.com

SELECT C.cname, AVG(S.age) Chat powcoder
FROM Students S, Enrolled E, Courses C
WHERE S.sid = E.sid AND E.cid = C.cid
GROUP BY C.cid, C.cname
HAVING ANY(S.age) > 20 AND COUNT(\*) >= 10



```
Students (sid:integer, sname:string, age:integer)
  Enrolled (sid:integer, cid:integer, grade:integer)
  Courses (cid:integer, cname:string, credits:integer)
"Find the courses that have the highest average age computed among students 25 or younger (i.e., highest among all courses) and also have at least 10 students of any age
enrolled. Output the course name and the above-mentioned average age value." <a href="https://powcoder.com">https://powcoder.com</a>
   SELECT Temp.cname, Temp.avg_age
   FROM (SELECT C.cname) AWG(Stage) AS avg der FROM Students S, Enrolled E, Courses C
            WHERE S.sid = E.sid AND E.cid = C.cid AND S.age <= 25
            GROUP BY C.cid, C.cname
            HAVING 10 <= (SELECT COUNT(*)
                              FROM Enrolled E1
                              WHERE E1.cid = C.cid) ) Temp
   WHERE Temp.avg_age = (SELECT MAX(Temp. avg_age) FROM Temp)
```