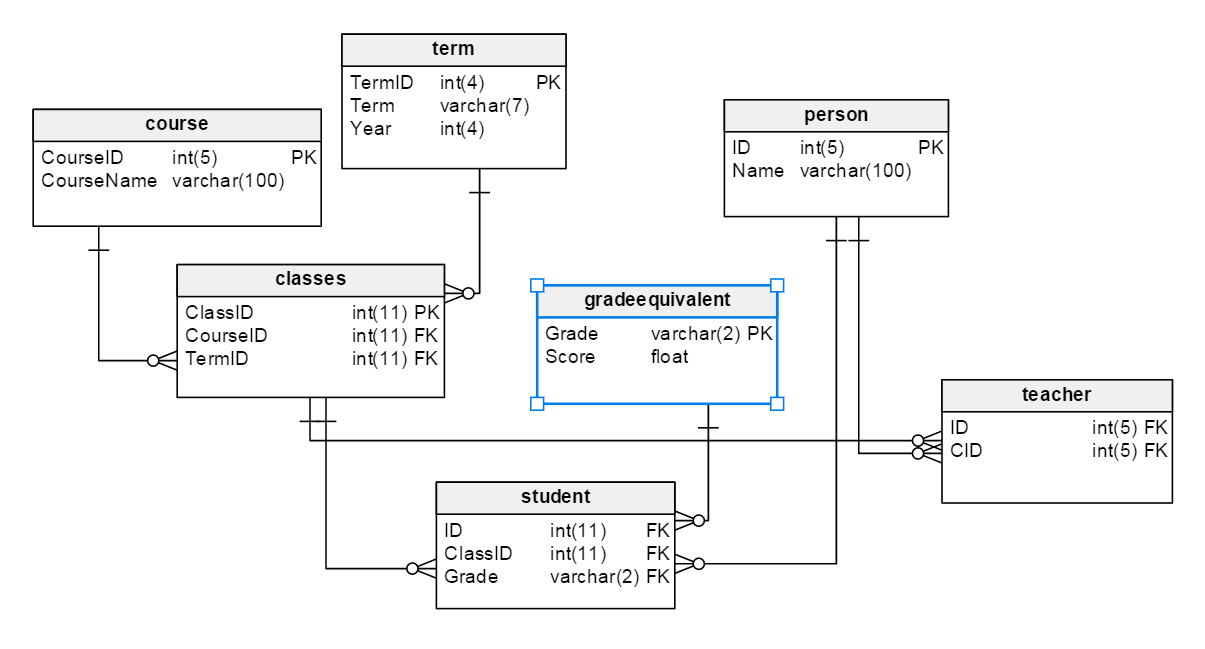
**Domain Description**

**I have people at a university. These people can be teachers and students. Teachers can teach classes and students can attend classes. Some students (i.e. graduate students) may also teach classes. Students may have grades for a specific class in a specific term (i.e. Spring 2010).**

**Relational Model:**



Stored data-

|  |  |
| --- | --- |
| Course | Classes |
| Gradeequivalent    Please not the name of field in gradeequivalent table in the attached database is not score (instead its gpa)  (Sorry about the confusion but had mistakenly named it gpa and then later did not wish to rename due to dependencies) | student |
| Person- | Teacher Term |
|  |  |
|  |  |

**MySQL file for import:**



**Queries:**

|  |  |  |
| --- | --- | --- |
| **No** | **Description** | **Query** |
| **1** | **How many people are exclusively students?** | [SELECT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) [COUNT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fgroup-by-functions.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b#function_count)(DISTINCT ID) FROM `student` WHERE ID [NOT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Flogical-operators.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b#operator_not) [IN](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b#function_in) ([SELECT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) ID FROM teacher) |
| **2** | **How many people are exclusively teachers?** | [SELECT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) [COUNT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fgroup-by-functions.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b#function_count)(DISTINCT ID) FROM `teacher` WHERE ID [NOT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Flogical-operators.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b#operator_not) [IN](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b#function_in) ([SELECT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) ID FROM student) |
| **3** | **How many people are both students and teachers?** | [SELECT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) [COUNT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fgroup-by-functions.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b#function_count)(DISTINCT ID) FROM `teacher` WHERE ID [IN](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b#function_in) ([SELECT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) ID FROM student) |
| **4** | **Assume you have a student name Mickey Mouse, what is his Data Structure & Algorithm Grade in Spring 2010?** | [SELECT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) grade FROM `student` WHERE id=([SELECT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) id FROM `person` WHERE name="Mickey Mouse") [AND](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Flogical-operators.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b#operator_and) classid= ([SELECT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) classid FROM `classes` WHERE courseid=([SELECT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) courseid FROM `course` WHERE coursename="Data Structures and Algorithm") [AND](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Flogical-operators.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b#operator_and) termid= ([SELECT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) termid FROM `term` WHERE term="Spring" [AND](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Flogical-operators.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b#operator_and) [year](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fdate-and-time-types.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b)=2010)) |
| **5** | **Assume you have a student name Minnie Mouse, what is her GPA?** | SELECT AVG(tt.gpa) GPA  FROM (select course.courseid, gradeequivalent.gpa from classes  JOIN course ON classes.courseid=course.courseid  JOIN term ON classes.termid=term.termid  JOIN student ON student.classid = classes.classid  JOIN gradeequivalent ON gradeequivalent.grade = student.grade  JOIN person ON student.id = person.id where student.id=(select id from person where name = "Minnie Mouse")  group by course.courseid) tt  INNER JOIN  (select course.courseid, MAX(gradeequivalent.gpa) AS MaxGPA from classes  JOIN course ON classes.courseid=course.courseid  JOIN term ON classes.termid=term.termid  JOIN student ON student.classid = classes.classid  JOIN gradeequivalent ON gradeequivalent.grade = student.grade  JOIN person ON student.id = person.id where student.id=(select id from person where name = "Minnie Mouse")  group by course.courseid) groupedtt  ON tt.courseid = groupedtt.courseid  AND tt.gpa = groupedtt.MaxGPA |
| **6** | **What is the median grade for all students taking Physics in Fall 2010?** | Doubt- How can we calculate median of letters/chars when the set contains even number of values?  If I was expected to find median of the equivalent scores this would be the query-  (SELECT truncate(avg(t1.gpa),2) as median\_val FROM (  SELECT @rownum:=@rownum+1 as `row\_number`, d.gpa  FROM (SELECT gradeequivalent.gpa, term.term, term.year, course.coursename, gradeequivalent.grade FROM classes  JOIN course ON classes.courseid=course.courseid  JOIN term ON classes.termid=term.termid  JOIN student ON student.classid = classes.classid  JOIN gradeequivalent ON gradeequivalent.grade = student.grade) d, (SELECT @rownum:=0) r    WHERE d.term = "Fall" and d.year = 2010 and d.coursename = "Physics"  ORDER BY d.gpa  ) as t1,  (  SELECT count(\*) as total\_rows  FROM (SELECT gradeequivalent.gpa, term.term, term.year, course.coursename, gradeequivalent.grade FROM classes  JOIN course ON classes.courseid=course.courseid  JOIN term ON classes.termid=term.termid  JOIN student ON student.classid = classes.classid  JOIN gradeequivalent ON gradeequivalent.grade = student.grade) d  WHERE d.term = "Fall" and d.year = 2010 and d.coursename = "Data Structures and Algorithm"  ) as t2  WHERE 1  AND t1.row\_number in ( floor((total\_rows+1)/2), floor((total\_rows+2)/2) )  )  But if you want to calculate the median of grades and find the equivalent grade for median this solution is erroneous. If you can clarify the expected output I can improve this query. Sometimes it will come up with a median for even number set which will not have an equivalent grade.  select gradeequivalent.grade from gradeequivalent where cast(gradeequivalent.gpa as char)=  (SELECT truncate(avg(t1.gpa),2) as median\_val FROM (  SELECT @rownum:=@rownum+1 as `row\_number`, d.gpa  FROM (SELECT gradeequivalent.gpa, term.term, term.year, course.coursename, gradeequivalent.grade FROM classes  JOIN course ON classes.courseid=course.courseid  JOIN term ON classes.termid=term.termid  JOIN student ON student.classid = classes.classid  JOIN gradeequivalent ON gradeequivalent.grade = student.grade) d, (SELECT @rownum:=0) r    WHERE d.term = "Fall" and d.year = 2010 and d.coursename = "Physics"  ORDER BY d.gpa  ) as t1,  (  SELECT count(\*) as total\_rows  FROM (SELECT gradeequivalent.gpa, term.term, term.year, course.coursename, gradeequivalent.grade FROM classes  JOIN course ON classes.courseid=course.courseid  JOIN term ON classes.termid=term.termid  JOIN student ON student.classid = classes.classid  JOIN gradeequivalent ON gradeequivalent.grade = student.grade) d  WHERE d.term = "Fall" and d.year = 2010 and d.coursename = "Data Structures and Algorithm"  ) as t2  WHERE 1  AND t1.row\_number in ( floor((total\_rows+1)/2), floor((total\_rows+2)/2) )  ) |
| **7** | **Assume you have a professor name Donald Duck, what courses did he teach in Summer 2010?** | [select](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) coursename from course where courseid IN ([SELECT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) courseid FROM `classes` WHERE classid IN ([SELECT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) cid FROM `teacher` WHERE id=([select](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) id from person where name = "Donald Duck")) [and](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Flogical-operators.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b#operator_and) termid=([select](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) termid from term where term="summer" [and](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Flogical-operators.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b#operator_and) [year](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fdate-and-time-types.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b)=2010)) |
| **8** | **What courses has Minnie Mouse taken with Donald Duck as the professor?** | [select](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) distinct(coursename) from course where courseid [in](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b" \l "function_in) ([select](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) courseid from classes where classid [in](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b" \l "function_in) ([select](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) cid from teacher where id = ([select](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) id from person where name = "Donald Duck") [and](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Flogical-operators.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b#operator_and) cid [in](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b" \l "function_in) ([select](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) classid from student where id= ([select](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) id from person where name = "Minnie Mouse")))) |
| **9** | **Assume that Snow White is both a student and a teacher. What classes has Snow White and Minnie Mouse taken together as students?** | SELECT classid, coursename, term, year FROM classes  JOIN course ON classes.courseid=course.courseid  JOIN term ON classes.termid=term.termid  where classes.classid IN  (SELECT a.classid FROM student a, student b WHERE a.id =  (SELECT id FROM person WHERE name="Mickey Mouse")  AND b.id = (SELECT id FROM person WHERE name="Snow White") AND a.classid = b.classid) |
| **10** | **What classes has Snow White taught that Minnie Mouse has attended?** | [SELECT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) classid, coursename, term, [year](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fdate-and-time-types.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) FROM classes JOIN course ON classes.courseid=course.courseid JOIN term ON classes.termid=term.termid where classes.courseid [in](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b" \l "function_in) ([select](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) courseid from classes where classes.classid [in](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b" \l "function_in) ([select](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) cid from teacher where id = ([select](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) id from person where name = "Snow White") [and](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Flogical-operators.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b#operator_and) cid [in](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b" \l "function_in) ([select](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) classid from student where id= ([select](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) id from person where name = "Minnie Mouse")))) |
| **11** | **What classes have been taught by both Donald Duck and Snow White?** | SELECT classid, coursename, term, year FROM classes  JOIN course ON classes.courseid=course.courseid  JOIN term ON classes.termid=term.termid  Where classes.classid IN (SELECT a.cid FROM teacher a, teacher b WHERE a.id IN (SELECT id FROM `person` WHERE name="Donald Duck") AND b.id IN (SELECT id FROM `person` WHERE name="Snow White") AND a.cid = b.cid) |
| **12** | **Assume that Mickey Mouse has taken Data Structures & Algorithms several times, Spring 2010 for a C-, Summer 2010 for a B+, and Fall 2010 for a A-, and Winter 2010 for an A. What was his highest grade for Data Structure and Algorithms and what term was that in?** | SELECT student.Grade, term FROM classes  JOIN course ON classes.courseid=course.courseid  JOIN term ON classes.termid=term.termid  JOIN student ON student.classid = classes.classid  JOIN gradeequivalent ON gradeequivalent.grade = student.grade  where student.id = (select id from person where name= "Mickey Mouse" ) and course.coursename = "Data Structures and Algorithm"  ORDER BY GPA desc  LIMIT 1 |
| **13** | **How many classes did Snow White take in 2010?** | [select](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) [count](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fgroup-by-functions.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b#function_count)(\*) from classes where classid [in](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b" \l "function_in) ([select](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) classid from student where id = ([select](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) id from person where name ="Snow White")) [and](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Flogical-operators.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b#operator_and) termid [in](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b" \l "function_in) ([select](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b) termid from term where [year](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fdate-and-time-types.html&server=0&token=70b1b5c4dfdf23fe1ed5d936a757415b)=2010) |
|  |  |  |