

```
CREATE TABLE course (sid INT, homework INT, project INT, exam INT, grade STR20)
INSERT INTO course (sid, homework, project, exam, grade) VALUES (1, 99, 100, 100, "A")
SELECT * FROM course
exam homework grade project sid
```

```
100 99 "A" 100 1
```

1 rows of results

```
INSERT INTO course (sid, homework, project, exam, grade) VALUES (2, NULL, 100, 100, "E")
setField ERROR: field type not FieldType.STR20!
SELECT * FROM course
exam homework grade project sid
```

```
100 99 "A" 100 1
```

```
100 NULL "E" 100 2
```

2 rows of results

```
INSERT INTO course (sid, grade, exam, project, homework) VALUES (3, "E", 100, 100, 100)
SELECT * FROM course
exam homework grade project sid
```

```
100 99 "A" 100 1
```

```
100 NULL "E" 100 2
```

```
100 100 "E" 100 3
```

3 rows of results

```
INSERT INTO course (sid, homework, project, exam, grade) SELECT * FROM course
SELECT * FROM course
exam homework grade project sid
```

```
100 99 "A" 100 1
```

```
100 NULL "E" 100 2
```

```
100 100 "E" 100 3
```

```
100 99 "A" 100 1
```

100	NULL	"E"	100	2
-----	------	-----	-----	---

100	100	"E"	100	3
-----	-----	-----	-----	---

6 rows of results

DELETE FROM course WHERE grade = "E"

SELECT * FROM course

exam	homework	grade	project	sid
------	----------	-------	---------	-----

100	99	"A"	100	1
-----	----	-----	-----	---

100	99	"A"	100	1
-----	----	-----	-----	---

2 rows of results

INSERT INTO course (sid, homework, project, exam, grade) VALUES (4, 99, 100, 100, "B")

SELECT * FROM course

exam	homework	grade	project	sid
------	----------	-------	---------	-----

100	99	"A"	100	1
-----	----	-----	-----	---

100	99	"A"	100	1
-----	----	-----	-----	---

100	99	"B"	100	4
-----	----	-----	-----	---

3 rows of results

DELETE FROM course

SELECT * FROM course

exam	homework	grade	project	sid
------	----------	-------	---------	-----

0 rows of results

DROP TABLE course

CREATE TABLE course (sid INT, homework INT, project INT, exam INT, grade STR20)

INSERT INTO course (sid, homework, project, exam, grade) VALUES (1, 99, 100, 100, "A")

INSERT INTO course (sid, homework, project, exam, grade) VALUES (3, 100, 100, 98, "C")

INSERT INTO course (sid, homework, project, exam, grade) VALUES (3, 100, 69, 64, "C")

INSERT INTO course (sid, homework, project, exam, grade) VALUES (15, 100, 50, 90, "E")

INSERT INTO course (sid, homework, project, exam, grade) VALUES (15, 100, 99, 100, "E")

INSERT INTO course (sid, homework, project, exam, grade) VALUES (17, 100, 100, 100, "A")

INSERT INTO course (sid, homework, project, exam, grade) VALUES (2, 100, 100, 99, "B")

[illegible]

```

INSERT INTO course (sid, homework, project, exam, grade) VALUES (16, 0, 0, 0, "E")
INSERT INTO course (sid, homework, project, exam, grade) VALUES (16, 0, 0, 0, "E")
INSERT INTO course (sid, homework, project, exam, grade) VALUES (16, 0, 0, 0, "E")
INSERT INTO course (sid, homework, project, exam, grade) VALUES (16, 0, 0, 0, "E")
INSERT INTO course (sid, homework, project, exam, grade) VALUES (16, 0, 0, 0, "E")
INSERT INTO course (sid, homework, project, exam, grade) VALUES (16, 0, 0, 0, "E")
INSERT INTO course (sid, homework, project, exam, grade) VALUES (17, 100, 100, 100, "A")

```

```

SELECT * FROM course

```

```

exam    homework    grade    project    sid

```

100	99	"A"	100	1
98	100	"C"	100	3
64	100	"C"	69	3
90	100	"E"	50	15
100	100	"E"	99	15
100	100	"A"	100	17
99	100	"B"	100	2
97	100	"D"	100	4
66	100	"A"	100	5
65	100	"B"	100	6
73	100	"C"	50	7
62	50	"C"	50	8
61	50	"D"	50	9
70	50	"C"	70	10
59	50	"D"	50	11
58	0	"C"	70	12
77	0	"C"	50	13

0	0	"E"	0	16
0	0	"E"	0	16
0	0	"E"	0	16
0	0	"E"	0	16
0	0	"E"	0	16
0	0	"E"	0	16
0	0	"E"	0	16
0	0	"E"	0	16
0	0	"E"	0	16
0	0	"E"	0	16
0	0	"E"	0	16
0	0	"E"	0	16
0	0	"E"	0	16
0	0	"E"	0	16
0	0	"E"	0	16
0	0	"E"	0	16
0	0	"E"	0	16
0	0	"E"	0	16
100	100	"A"	100	17

58 rows of results

```
SELECT sid, grade FROM course
sid      grade
```

```
1      "A"
```

3 "C"

3 "C"

15 "E"

15 "E"

17 "A"

2 "B"

4 "D"

5 "A"

6 "B"

7 "C"

8 "C"

9 "D"

10 "C"

11 "D"

12 "C"

13 "C"

14 "D"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

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16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

17 "A"

58 rows of results

SELECT sid, course.grade FROM course
sid grade

1 "A"

3 "C"

3 "C"

15 "E"

15 "E"

17 "A"

2 "B"

4 "D"

5 "A"

6 "B"

7 "C"

8 "C"

9 "D"

10 "C"

11 "D"

12 "C"

13 "C"

14 "D"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

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16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

16 "E"

17 "A"

58 rows of results

SELECT DISTINCT grade FROM course

grade

"A"

"C"

"E"

"B"

"D"

5 rows of results

SELECT DISTINCT * FROM course

exam	homework	grade	project	sid
100	99	"A"	100	1
98	100	"C"	100	3
64	100	"C"	69	3
90	100	"E"	50	15
100	100	"E"	99	15
100	100	"A"	100	17
99	100	"B"	100	2
97	100	"D"	100	4
66	100	"A"	100	5
65	100	"B"	100	6
73	100	"C"	50	7
62	50	"C"	50	8
61	50	"D"	50	9
70	50	"C"	70	10

19 rows of results

[illegible]

0	0	"E"	0	16
0	0	"E"	0	16
0	0	"E"	0	16
0	0	"E"	0	16
0	0	"E"	0	16
56	50	"D"	50	14
58	0	"C"	70	12
59	50	"D"	50	11
61	50	"D"	50	9
62	50	"C"	50	8
64	100	"C"	69	3
65	100	"B"	100	6
66	100	"A"	100	5
70	50	"C"	70	10
73	100	"C"	50	7
77	0	"C"	50	13
90	100	"E"	50	15
97	100	"D"	100	4
98	100	"C"	100	3
99	100	"B"	100	2
100	99	"A"	100	1
100	100	"E"	99	15
100	100	"A"	100	17
100	100	"A"	100	17

58 rows of results

SELECT * FROM course WHERE exam = 100
exam homework grade project sid

100	99	"A"	100	1
100	100	"E"	99	15
100	100	"A"	100	17
100	100	"A"	100	17

4 rows of results

SELECT * FROM course WHERE grade = "A"
exam homework grade project sid

100	99	"A"	100	1
-----	----	-----	-----	---

100	100	"A"	100	17
-----	-----	-----	-----	----

66	100	"A"	100	5
----	-----	-----	-----	---

100	100	"A"	100	17
-----	-----	-----	-----	----

4 rows of results

SELECT * FROM course WHERE exam = 100 AND project = 100
exam homework grade project sid

100	99	"A"	100	1
-----	----	-----	-----	---

100	100	"A"	100	17
-----	-----	-----	-----	----

100	100	"A"	100	17
-----	-----	-----	-----	----

3 rows of results

SELECT * FROM course WHERE exam = 100 OR exam = 99
exam homework grade project sid

100	99	"A"	100	1
-----	----	-----	-----	---

100	100	"E"	99	15
-----	-----	-----	----	----

100	100	"A"	100	17
-----	-----	-----	-----	----

99	100	"B"	100	2
----	-----	-----	-----	---

100	100	"A"	100	17
-----	-----	-----	-----	----

5 rows of results

SELECT * FROM course WHERE NOT exam = 0
exam homework grade project sid

100	99	"A"	100	1
-----	----	-----	-----	---

98	100	"C"	100	3
----	-----	-----	-----	---

64	100	"C"	69	3
----	-----	-----	----	---

90	100	"E"	50	15
100	100	"E"	99	15
100	100	"A"	100	17
99	100	"B"	100	2
97	100	"D"	100	4
66	100	"A"	100	5
65	100	"B"	100	6
73	100	"C"	50	7
62	50	"C"	50	8
61	50	"D"	50	9
70	50	"C"	70	10
59	50	"D"	50	11
58	0	"C"	70	12
77	0	"C"	50	13
56	50	"D"	50	14
100	100	"A"	100	17

19 rows of results

SELECT * FROM course WHERE exam > 70
exam homework grade project sid

100	99	"A"	100	1
98	100	"C"	100	3
90	100	"E"	50	15
100	100	"E"	99	15

100	100	"A"	100	17
99	100	"B"	100	2
97	100	"D"	100	4
73	100	"C"	50	7
77	0	"C"	50	13
100	100	"A"	100	17

10 rows of results

SELECT * FROM course WHERE exam = 100 OR homework = 100 AND project = 100
exam homework grade project sid

100	99	"A"	100	1
98	100	"C"	100	3
100	100	"E"	99	15
100	100	"A"	100	17
99	100	"B"	100	2
97	100	"D"	100	4
66	100	"A"	100	5
65	100	"B"	100	6
100	100	"A"	100	17

9 rows of results

SELECT * FROM course WHERE [exam = 100 OR homework = 100] AND project = 100
exam homework grade project sid

100	99	"A"	100	1
98	100	"C"	100	3

100	100	"A"	100	17
99	100	"B"	100	2
97	100	"D"	100	4
66	100	"A"	100	5
65	100	"B"	100	6
100	100	"A"	100	17

8 rows of results

SELECT * FROM course WHERE exam + homework = 200
 exam homework grade project sid

100	100	"E"	99	15
100	100	"A"	100	17
100	100	"A"	100	17

3 rows of results

SELECT * FROM course WHERE (exam * 30 + homework * 20 + project * 50) / 100 = 100
 exam homework grade project sid

100	100	"A"	100	17
100	100	"A"	100	17

2 rows of results

SELECT * FROM course WHERE grade = "C" AND [exam > 70 OR project > 70] AND NOT (exam * 30 + homework * 20 + project * 50) / 100 < 60
 exam homework grade project sid

98	100	"C"	100	3
73	100	"C"	50	7

2 rows of results

```

CREATE TABLE course2 (sid INT, exam INT, grade STR20)
INSERT INTO course2 (sid, exam, grade) VALUES (1, 100, "A")
INSERT INTO course2 (sid, exam, grade) VALUES (16, 25, "E")
INSERT INTO course2 (sid, exam, grade) VALUES (17, 0, "A")
SELECT * FROM course, course2

```

100	99	"A"	100	1	100	"A"	1
100	99	"A"	100	1	25	"E"	16
100	99	"A"	100	1	0	"A"	17
98	100	"C"	100	3	100	"A"	1
98	100	"C"	100	3	25	"E"	16
98	100	"C"	100	3	0	"A"	17
64	100	"C"	69	3	100	"A"	1
64	100	"C"	69	3	25	"E"	16
64	100	"C"	69	3	0	"A"	17
90	100	"E"	50	15	100	"A"	1
90	100	"E"	50	15	25	"E"	16
90	100	"E"	50	15	0	"A"	17
100	100	"E"	99	15	100	"A"	1
100	100	"E"	99	15	25	"E"	16
100	100	"E"	99	15	0	"A"	17
100	100	"A"	100	17	100	"A"	1
100	100	"A"	100	17	25	"E"	16
100	100	"A"	100	17	0	"A"	17

99	100	"B"	100	2	100	"A"	1
99	100	"B"	100	2	25	"E"	16
99	100	"B"	100	2	0	"A"	17
97	100	"D"	100	4	100	"A"	1
97	100	"D"	100	4	25	"E"	16
97	100	"D"	100	4	0	"A"	17
66	100	"A"	100	5	100	"A"	1
66	100	"A"	100	5	25	"E"	16
66	100	"A"	100	5	0	"A"	17
65	100	"B"	100	6	100	"A"	1
65	100	"B"	100	6	25	"E"	16
65	100	"B"	100	6	0	"A"	17
73	100	"C"	50	7	100	"A"	1
73	100	"C"	50	7	25	"E"	16
73	100	"C"	50	7	0	"A"	17
62	50	"C"	50	8	100	"A"	1
62	50	"C"	50	8	25	"E"	16
62	50	"C"	50	8	0	"A"	17
61	50	"D"	50	9	100	"A"	1
61	50	"D"	50	9	25	"E"	16
61	50	"D"	50	9	0	"A"	17
70	50	"C"	70	10	100	"A"	1

70	50	"C"	70	10	25	"E"	16
70	50	"C"	70	10	0	"A"	17
59	50	"D"	50	11	100	"A"	1
59	50	"D"	50	11	25	"E"	16
59	50	"D"	50	11	0	"A"	17
58	0	"C"	70	12	100	"A"	1
58	0	"C"	70	12	25	"E"	16
58	0	"C"	70	12	0	"A"	17
77	0	"C"	50	13	100	"A"	1
77	0	"C"	50	13	25	"E"	16
77	0	"C"	50	13	0	"A"	17
56	50	"D"	50	14	100	"A"	1
56	50	"D"	50	14	25	"E"	16
56	50	"D"	50	14	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16

0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17

0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1

0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16

0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17

0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
0	0	"E"	0	16	100	"A"	1
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	0	"A"	17
100	100	"A"	100	17	100	"A"	1

100	100	"A"	100	17	25	"E"	16
100	100	"A"	100	17	0	"A"	17

174 rows of results

```

INSERT INTO course2 (sid, exam, grade) VALUES (2, 99, "B")
e= java.lang.ArithmeticException: / by zero
INSERT INTO course2 (sid, exam, grade) VALUES (3, 98, "C")
INSERT INTO course2 (sid, exam, grade) VALUES (4, 97, "D")
INSERT INTO course2 (sid, exam, grade) VALUES (5, 66, "A")
INSERT INTO course2 (sid, exam, grade) VALUES (6, 65, "B")
INSERT INTO course2 (sid, exam, grade) VALUES (18, 0, "A")
INSERT INTO course2 (sid, exam, grade) VALUES (18, 0, "A")
INSERT INTO course2 (sid, exam, grade) VALUES (18, 0, "A")
INSERT INTO course2 (sid, exam, grade) VALUES (18, 0, "A")
INSERT INTO course2 (sid, exam, grade) VALUES (18, 0, "A")
INSERT INTO course2 (sid, exam, grade) VALUES (18, 0, "A")
INSERT INTO course2 (sid, exam, grade) VALUES (18, 0, "A")
INSERT INTO course2 (sid, exam, grade) VALUES (18, 0, "A")
INSERT INTO course2 (sid, exam, grade) VALUES (18, 0, "A")
INSERT INTO course2 (sid, exam, grade) VALUES (18, 0, "A")
INSERT INTO course2 (sid, exam, grade) VALUES (18, 0, "A")
INSERT INTO course2 (sid, exam, grade) VALUES (18, 0, "A")
INSERT INTO course2 (sid, exam, grade) VALUES (18, 0, "A")
INSERT INTO course2 (sid, exam, grade) VALUES (18, 0, "A")
SELECT course.sid, course.grade, course2.grade FROM course, course2 WHERE course.sid =
course2.sid

```

1	"A"	"A"
3	"C"	"C"
3	"C"	"C"
17	"A"	"A"
4	"D"	"D"
5	"A"	"A"

6	"B"	"B"
---	-----	-----

16 "E" "E"

16 "E" "E"

16 "E" "E"

16 "E" "E"

16 "E" "E"

16 "E" "E"

16 "E" "E"

16 "E" "E"

16 "E" "E"

16 "E" "E"

16 "E" "E"

16 "E" "E"

16 "E" "E"

16 "E" "E"

16 "E" "E"

16 "E" "E"

16 "E" "E"

16 "E" "E"

16 "E" "E"

16 "E" "E"

16 "E" "E"

"A" "A"

```
SELECT * FROM course, course2 WHERE course.sid = course2.sid ORDER BY course.exam
```

[illegible]

0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	25	"E"	16
0	0	"E"	0	16	25	"E"	16
64	100	"C"	69	3	98	"C"	3
65	100	"B"	100	6	65	"B"	6
66	100	"A"	100	5	66	"A"	5
97	100	"D"	100	4	97	"D"	4
98	100	"C"	100	3	98	"C"	3
100	99	"A"	100	1	100	"A"	1
100	100	"A"	100	17	0	"A"	17
100	100	"A"	100	17	0	"A"	17

47 rows of results

SELECT * FROM course, course2 WHERE course.sid = course2.sid AND course.exam = 100 AND course2.exam = 100

100	99	"A"	100	1	100	"A"	1
-----	----	-----	-----	---	-----	-----	---

1 rows of results

SELECT * FROM course, course2 WHERE course.sid = course2.sid AND [course.exam = 100 OR course2.exam = 100]

100	99	"A"	100	1	100	"A"	1
-----	----	-----	-----	---	-----	-----	---

1 rows of results

SELECT * FROM course, course2 WHERE course.sid = course2.sid AND course.exam > course2.exam

100	100	"A"	100	17	0	"A"	17
-----	-----	-----	-----	----	---	-----	----

100	100	"A"	100	17	0	"A"	17
-----	-----	-----	-----	----	---	-----	----

2 rows of results

SELECT * FROM course, course2 WHERE course.sid = course2.sid AND course.exam > course2.exam AND course.homework = 100

100	100	"A"	100	17	0	"A"	17
100	100	"A"	100	17	0	"A"	17

2 rows of results

SELECT * FROM course, course2 WHERE course.sid = course2.sid AND [course.exam > course2.exam OR course.homework = 100]

98	100	"C"	100	3	98	"C"	3
64	100	"C"	69	3	98	"C"	3
100	100	"A"	100	17	0	"A"	17
97	100	"D"	100	4	97	"D"	4
66	100	"A"	100	5	66	"A"	5
65	100	"B"	100	6	65	"B"	6
100	100	"A"	100	17	0	"A"	17

7 rows of results

SELECT DISTINCT course.grade, course2.grade FROM course, course2 WHERE course.sid = course2.sid AND [course.exam > course2.exam OR course.grade = "A" AND course2.grade = "A"] ORDER BY course.exam

"A"	"A"
-----	-----

1 rows of results

DROP TABLE course
DROP TABLE course2

CREATE TABLE t1 (c INT)
CREATE TABLE t2 (c INT)
CREATE TABLE t3 (c INT)
CREATE TABLE t4 (c INT)
CREATE TABLE t5 (c INT)


```

CREATE TABLE t6 (c INT)
INSERT INTO t1 (c) VALUES (0)
INSERT INTO t1 (c) VALUES (1)
INSERT INTO t1 (c) VALUES (2)
INSERT INTO t1 (c) VALUES (3)
INSERT INTO t1 (c) VALUES (4)
INSERT INTO t2 (c) VALUES (0)
INSERT INTO t2 (c) VALUES (1)
INSERT INTO t2 (c) VALUES (2)
INSERT INTO t2 (c) VALUES (3)
INSERT INTO t3 (c) VALUES (0)
INSERT INTO t3 (c) VALUES (1)
INSERT INTO t3 (c) VALUES (2)
INSERT INTO t3 (c) VALUES (3)
INSERT INTO t4 (c) VALUES (0)
INSERT INTO t4 (c) VALUES (1)
INSERT INTO t5 (c) VALUES (0)
INSERT INTO t5 (c) VALUES (0)
INSERT INTO t6 (c) VALUES (0)
SELECT * FROM t1, t2, t3, t4, t5, t6

```

0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	1	0	0
0	0	0	1	0	0
0	0	1	0	0	0
0	0	1	0	0	0
0	0	1	1	0	0
0	0	1	1	0	0
0	0	2	0	0	0
0	0	2	0	0	0
0	0	2	1	0	0

0	0	2	1	0	0
0	0	3	0	0	0
0	0	3	0	0	0
0	0	3	1	0	0
0	0	3	1	0	0
0	1	0	0	0	0
0	1	0	0	0	0
0	1	0	1	0	0
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0	1	1	1	0	0
0	1	2	0	0	0
0	1	2	0	0	0
0	1	2	1	0	0
0	1	2	1	0	0
0	1	3	0	0	0
0	1	3	0	0	0
0	1	3	1	0	0
0	1	3	1	0	0
0	2	0	0	0	0

0	2	0	0	0	0
0	2	0	1	0	0
0	2	0	1	0	0
0	2	1	0	0	0
0	2	1	0	0	0
0	2	1	1	0	0
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0	3	0	1	0	0
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0	3	1	0	0	0
0	3	1	1	0	0

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0	3	2	0	0	0
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0	3	2	1	0	0
0	3	3	0	0	0
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1	0	2	1	0	0
1	0	2	1	0	0
1	0	3	0	0	0

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1	0	3	1	0	0
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1	1	0	0	0	0
1	1	0	1	0	0
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1	1	3	1	0	0
1	2	0	0	0	0
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1	2	0	1	0	0

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1	3	2	0	0	0

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4	0	3	0	0	0
4	0	3	1	0	0
4	0	3	1	0	0
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4	1	0	1	0	0

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4	3	2	1	0	0
4	3	3	0	0	0
4	3	3	0	0	0
4	3	3	1	0	0

4	3	3	1	0	0
---	---	---	---	---	---

320 rows of results

DROP TABLE t1

DROP TABLE t2

DROP TABLE t3

DROP TABLE t4

DROP TABLE t5

DROP TABLE t6

Process finished with exit code 0