sid 0: 1	course DUMP BEGIN**** homework 99 DUMP END****	* project 100	exam 100	grade A
sid 0: 1 1: 2	course DUMP BEGIN**** homework 99 -1 DUMP END****	* project 100 100	exam 100 100	grade A E
sid 0: 1 1: 2 2: 3	course DUMP BEGIN**** homework 99 -1 100 DUMP END****	* project 100 100 100	exam 100 100 100	grade A E E
sid 0: 1 1: 2 2: 3 3: 1 4: 2 5: 3	course DUMP BEGIN**** homework 99 -1 100 99 -1 100 DUMP END****	project 100 100 100 100 100 100 100	exam 100 100 100 100 100 100	grade A E E A E E
sid 0: 1 1: (hole) 2: (hole) 3: 1 4: (hole) 5: (hole)	course DUMP BEGIN**** homework 99  99  DUMP END****	* project 100	exam 100 100	grade A A
SELECT * FROM ******RELATION sid 0: 1 1: (hole) 2: (hole) 3: 1 4: (hole)	course DUMP BEGIN**** homework 99	* project 100	exam 100	grade A A

5: (hole) 6: 4 *****RELATION Disk IOS: 87	99 DUMP END****	100	100	В
SELECT * FROM 6 *****RELATION sid 0: 1: 2: 3: 4: 5: 6: ******RELATION Disk IOS: 115	DUMP BEGIN**** homework	** project	exam	grade
SELECT * FROM (		asla		
**************************************	DUMP BEGIN***** homework 99 100 100 100 100 100 100 100 100 100	project 100 100 69 50 99 100 100 100 100 100 100 50 50 50 70 50 70 50 0 0 0 0 0 0 0 0	exam 100 98 64 90 100 100 99 97 66 65 73 62 61 70 59 58 77 56 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	grade A C C E E A B D A B C C D C D C D C D E E E E E E E E E E E

35:	16	0	0	0	Е
36:	16	0	0	0	Е
37:	16	0	0	0	Е
38:	16	0	0	0	Ē
39:	16	0	0	0	Ē
40:	16	0	0	0	Ē
41:	16	0	0	0	
42:	16	0	0	0	E E
43:	16	0	0	0	Ē
44:	16	0	0	0	Ē
45:	16	0	0	0	Ē
46:	16	0	0	0	Е
47:	16	0	0	0	Е
48:	16	0	0	0	Е
49:	16	0	0	0	Е
50:	16	0	0	0	Е
51:	16	0	0	0	Е
52:	16	0	0	0	Е
53:	16	0	0	0	Е
54:	16	0	0	0	Е
55:	16	0	0	0	Е
56:	16	0	0	0	Е
57:	16	0	0	0	Е
58:	16	0	0	0	Е
59:	17	100	100	100	A
***	***RFI ATTON	DIIMP FND****			

Disk IOS: 354

## SELECT sid, grade FROM course \*\*\*\*\*RELATION DUMP BEGIN\*\*\*\*\*

****	*RELATION	DUMP	BEGIN****
sid		grade	е
0: 1		Α	
3		С	
3		C	
15		Е	
1: 15		Е	
17		A	
2		В	
4		D	
2 4 2: 5 6 7 8 3: 9		Α	
6		B C	
7		С	
8		C	
		D	
10		C	
11		D C	
12		C	
4: 13		C	
14		D	
16		E	
16		E	
5: 16		E	
16		E	
16		Е	
16		E	
6: 16		Е	

16 16		E E	
16 7:	16	E E	
16 16		E E	
16		E	
8:	16	Е	
16		E	
16 16		E E	
9:	16	E E	
16	10	E	
16		Ë	
16		Ē	
10:	16	Е	
16		Е	
16		Е	
16	1.0	Е	
11:	16	E	
16		E	
16 16		E E	
12:	16	E	
16	10	Ë	
16		Ē	
16		E E	
13:	16	Е	
16		Е	
16		Е	
16	1.0	E	
14: 16	16	E E	
16		E E	
17		A	
	****RELATION		Е
	1 IOS: 653	DOM	

END\*\*\*\*\*

Disk IOS: 653

# SELECT sid, course.grade FROM course \*\*\*\*\*RELATION DUMP BEGIN\*\*\*\*\* sid course.grade

· · · · · · · · · · · · · · · · · · ·	DOMI DEGITOR.
sid	course.grade
0: 1	A
3	С
3	С
15	Ē
1: 15	Ē
17	Ä
	В
2 4	D
2: 5 6	Å
6	В
7	C
7 8	C
3: 9	D
10	C
11	D

```
D
14
                    Ē
16
                    Е
16
5: 16
                    Е
                    E
E
16
16
16
                    Е
                    Е
6: 16
                    Ē
16
                    Е
16
                    Е
16
7: 16
16
                    E
E
                    Е
16
16
                    Е
                    E
E
8: 16
16
16
                    Е
                    Е
16
                    Ē
9: 16
                    Е
16
16
                    Е
                    E
E
16
10: 16
16
                    Е
                    Е
16
                    Ē
16
11: 16
                    Е
16
                    Е
                    E
E
16
16
12: 16
                    Е
16
                    Е
16
                    Е
16
                    Е
13: 16
                    Е
                    Е
16
16
                    Е
16
                    Е
14: 16
                    Е
                    Е
16
16
                    Е
17
                    A
*****RELATION DUMP END****
Disk IOS: 952
SELECT DISTINCT grade FROM course *****RELATION DUMP BEGIN*****
grade
0: A
В
C
D
Е
```

C

C

12 4: 13

Disk IOS: 1284

## SELECT DISTINCT \* FROM course \*\*\*\*\*RELATION DUMP BEGIN\*\*\*\*\*

sid	homework	project	exam	grade
0: 1	99	100	100	A
1: 2	100	100	99	В
2: 3	100	69	64	С
3: 3	100	100	98	С
4: 4	100	100	97	D
5: 5	100	100	66	A
6: 6	100	100	65	В
7: 7	100	50	73	С
8: 8	50	50	62	С
9: 9	50	50	61	D
10: 10	50	70	70	С
11: 11	50	50	59	D
12: 12	0	70	58	С
13: 13	0	50	77	С
14: 14	50	50	56	D
15: 15	100	50	90	E
16: 15	100	99	100	Е
17: 16	0	0	0	Е
18: 17	100	100	100	A
*****RFLAT	ION DUMP END***	: <b>*</b> *		

\*\*\*\*\*RELATION DUMP END\*\*\*\*

Disk IOS: 1621

## SELECT \* FROM course ORDER BY exam \*\*\*\*\*RELATION DUMP BEGIN\*\*\*\*\*\*

sid	homework	project	exam	grade
0: 16	0	0	0	Е
1: 16	0	0	0	Е
2: 16	0	0	0	Е
3: 16	0	0	0	Е
4: 16	0	0	0	Е
5: 16	0	0	0	Е
6: 16	0	0	0	Е
7: 16	0	0	0	Е
8: 16	0	0	0	Е
9: 16	0	0	0	Е
10: 16	0	0	0	Е
11: 16	0	0	0	Е
12: 16	0	0	0	Е
13: 16	0	0	0	Е
14: 16	0	0	0	Е
15: 16	0	0	0	Е
16: 16	0	0	0	Е
17: 16	0	0	0	Е
18: 16	0	0	0	Е
19: 16	0	0	0	Е
20: 16	0	0	0	Е
21: 16	0	0	0	Е
22: 16	0	0	0	Е
23: 16	0	0	0	Е
24: 16	0	0	0	Е
		0		

25: 16 26: 16 27: 16 28: 16 29: 16 30: 16 31: 16 32: 16 33: 16 34: 16 35: 16 36: 16 37: 16 38: 16 40: 16 41: 16 42: 14 43: 12 44: 11 45: 9 46: 8 47: 3 48: 6 49: 5 50: 10 51: 7 52: 13 53: 15 54: 4 55: 3 56: 2 57: 17 58: 1 59: 17 60: 15 ******RELATION Disk IOS: 2042	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E E E E E E E E E E E E E E E D C D D C C B A C C C E D C B A A A E
*****RELATION sid 0: 1 1: 15 2: 17 3: 17	course WHERE example of DUMP BEGIN**** homework 99 100 100 100 100 100 FIND******		exam 100 100 100 100	grade A E A A
	course WHERE grad DUMP BEGIN**** homework 99 100 100 100		exam 100 100 66 100	grade A A A A

Disk IOS: 2416

SELECT * FROM	course WHERE	exam = 100	) AND	project =	100
*****RELATION	DUMP BEGIN*	****			

sid	homework	project	exam	grade
0: 1	99	100	100	A
1: 17	100	100	100	A
2: 17	100	100	100	A
557.4	mrou pine pin			

\*\*\*\*\*RELATION DUMP END\*\*\*\*

Disk IOS: 2601

SELECT \* FROM course WHERE exam = 100 OR exam = 99 \*\*\*\*\*RELATION DUMP BEGIN\*\*\*\*\*

sid	homework	project	exam	grade
0: 1	99	100	100	Ā
1: 15	100	99	100	Е
2: 17	100	100	100	A
3: 2	100	100	99	В
4: 17	100	100	100	A

\*\*\*\*\*RELATION DUMP END\*\*\*\*

Disk IOS: 2790

SELECT \* FROM course WHERE NOT exam = 0 \*\*\*\*\*\*RELATION DUMP BEGIN\*\*\*\*\*

sid	homework	project	exam	grade
0: 16	0	0	0	Е
1: 16	0	0	0	Е
2: 16	0	0	0	E E
3: 16	0	0	0	Е
4: 16	0	0	0	Е
5: 16	0	0	0	Ē
6: 16	0	0	0	Е
7: 16	0	0	0	E E E E
8: 16	0	0	0	Е
9: 16	0	0	0	Е
10: 16	0	0	0	Е
11: 16	0	0	0	E E E
12: 16	0	0	0	E
13: 16	0	0	0	E
14: 16	0	0	0	E
15: 16	0	0	0	E E
16: 16	0	0	0	Е
17: 16	0	0	0	Е
18: 16	0	0	0	Е
19: 16	0	0	0	E E E E
20: 16	0	0	0	Е
21: 16	0	0	0	Е
22: 16	0	0	0	Е
23: 16	0	0	0	Е
24: 16	0	0	0	Е
25: 16	0	0	0	Е
26: 16	0	0	0	Е
27: 16	0	0	0	E E E E E E E E E
28: 16	0	0	0	Е
29: 16	0	0	0	Е
		0		

30: 16	0	0	0	Е
31: 16	0	0	0	Ē
32: 16	0	0	0	Е
33: 16	0	0	0	Е
34: 16	0	0	0	Е
35: 16	0	0	0	Е
36: 16	0	0	0	Е
37: 16	0	0	0	Е
38: 16	0	0	0	Е
39: 16	0	0	0	Е
40: 16	0	0	0	Е
******BEI	ATION DIMP END**	****		

Disk IOS: 3051

SELECT \* FROM course WHERE exam > 70
\*\*\*\*\*RELATION DUMP BEGIN\*\*\*\*\*\*\*

	TOIL DECEM			
sid	homework	project	exam	grade
0: 1	99	100	100	A
1: 3	100	100	98	С
2: 15	100	50	90	E
3: 15	100	99	100	E
4: 17	100	100	100	A
5: 2	100	100	99	В
6: 4	100	100	97	D
7: 7	100	50	73	С
8: 13	0	50	77	С
9: 17	100	100	100	A
stantantantanta DELAT	TOM DUMB EMPARATION	.11.		

\*\*\*\*\*RELATION DUMP END\*\*\*\*

Disk IOS: 3250

SELECT \* FROM course WHERE exam = 100 OR homework = 100 AND project = 100
\*\*\*\*\*\*RELATION DUMP BEGIN\*\*\*\*\*\*\*

sid	homework	project	exam	grade
0: 1	99	100	100	A
1: 3	100	100	98	С
2: 15	100	99	100	Е
3: 17	100	100	100	A
4: 2	100	100	99	В
5: 4	100	100	97	D
6: 5	100	100	66	A
7: 6	100	100	65	В
8: 17	100	100	100	A

\*\*\*\*\*RELATION DUMP END\*\*\*\*

Disk IOS: 3447

SELECT \* FROM course WHERE [ exam = 100 OR homework = 100 ] AND project = 100
\*\*\*\*\*\*RELATION DUMP BEGIN\*\*\*\*\*\*

sid	homework	project	exam	grade
0: 1	99	100	100	A
1: 3	100	100	98	С
2: 17	100	100	100	A
3: 2	100	100	99	В
4: 4	100	100	97	D
5: 5	100	100	66	A
6: 6	100	100	65	В
7: 17	100	100	100	A

Disk IOS: 3642

SELECT \* FROM course WHERE exam + homework = 200

\*\*\*\*\*RELATION DUMP BEGIN\*\*\*\*

sid	homework	project	exam	grade
0: 15	100	99	100	Е
1: 17	100	100	100	A
2: 17	100	100	100	A

\*\*\*\*\*RELATION DUMP END\*\*\*\*

Disk IOS: 3827

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

\*\*\*\*\*\*RELATION DUMP BEGIN\*\*\*\*

sid	homework	project	exam	grade
0: 17	100	100	100	A
1: 17	100	100	100	A

\*\*\*\*\*RELATION DUMP END\*\*\*\*

Disk IOS: 4010

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

\*\*\*\*\*RELATION DUMP BEGIN\*\*\*\*

sid homework project exam grade

\*\*\*\*\*RELATION DUMP END\*\*\*\*

Disk IOS: 4190

SELECT \* FROM course, course2
\*\*\*\*\*RELATION DUMP BEGIN\*\*\*\*\*\*

course.s1d		course.homework	course. project	
course.exam		course.grade	course2.sid	
course2.exam		course2.grade		
0: 1	99	100	100	A
1	100	A		
1: 1	99	100	100	A
16	25	E		
2: 1	99	100	100	A
17	0	A		_
3: 3	100	100	98	С
1	100	A		
4: 3	100	100	98	С
16	25	Е		
5: 3	100	100	98	С
17	0	A		
6: 3	100	69	64	С
1	100	A		_
7: 3	100	69	64	С
16	25	E		_
8: 3	100	69	64	С
17	0	A		
9: 15	100	50	90	Е
1	100	A		
10: 15	100	50	90	Е
16	25	E		
11: 15	100	50	90	Е
		10		

17		0	A		
12:	15	100	99	100	Е
1		100	A		
13:	15	100	99	100	Е
16		25	E	100	-
14: 17	15	100	99	100	Е
15:	17	100	A 100	100	A
1	1.	100	A	100	**
16:	17	100	100	100	A
16	1.7	25	E	100	4
17: 17	17	100	100 A	100	A
18:	2	100	100	99	В
1	_	100	A		_
19:	2	100	100	99	В
16	0	25	E	00	D
20: 17	2	100	100 A	99	В
21:	4	100	100	97	D
1	1	100	A		D
22:	4	100	100	97	D
16	4	25	E	0.77	D
23: 17	4	100	100 A	97	D
24:	5	100	100	66	A
1		100	A		
25:	5	100	100	66	A
16	_	25	E	CC	Λ
26: 17	5	100	100 A	66	A
27:	6	100	100	65	В
1		100	A		
28:	6	100	100	65	В
16	C	25	E	G E	D
29: 17	6	100	100 A	65	В
30:	7	100	50	73	С
1		100	A		
31:	7	100	50	73	C
16	7	25 100	E 50	73	С
32: 17	1	0	A	13	C
33:	8	50	50	62	С
1		100	A		
34:	8	50	50	62	С
16 35:	R	25 50	E 50	62	С
17	O	0	A	02	C
36:	9	50	50	61	D
1		100	A	24	_
37:	9	50 25	50	61	D
16 38:	9	50 50	E 50	61	D
17		0	A	<b>~1</b>	D
39:	10	50	70	70	C
			1 1		

1		100	A		
40:	10	50	70	70	C
16		25	E		
	10	50	70	70	C
17	11	0	A	Γ0	D
42: 1	11	50 100	50 A	59	D
	11	50	50	59	D
16	11	25	E		D
44:	11	50	50	59	D
17		0	A	_	
	12	0	70	58	C
1 46:	12	100	A 70	58	С
40. 16	12	25	E	30	C
	12	0	70	58	С
17		0	A		
	13	0	50	77	C
1	1.0	100	A		0
49: 16	13	0 25	50 E	77	C
50:	13	0	50	77	С
17	10	0	A	••	Ü
51:	14	50	50	56	D
1	- 4	100	A		_
52:	14	50	50	56	D
16 53:	14	25 50	E 50	56	D
17	14	0	A	50	D
	16	0	0	0	Е
1		100	A		
	16	0	0	0	Е
16 56:	16	25 0	E 0	0	Е
17	10	0	A	U	Ľ
57:	16	0	0	0	Е
1		100	A		
	16	0	0	0	Е
16 59:	16	25 0	E O	0	Е
17	10	0	A	U	E
	16	0	0	0	Е
1		100	A		
	16	0	0	0	Е
16 62:	1.0	25	E	0	E
$\frac{62.}{17}$	16	0	O A	0	Е
63:	16	0	0	0	Е
1		100	A		
	16	0	0	0	Е
16 65:	16	25	E	0	Б
65: 17	16	0	O A	0	Е
66:	16	0	0	0	Е
1		100	A		
67:	16	0	0	0	Е

16		25	Е		
68:	16	0	0	0	Е
17 69:	16	0	A O	0	Е
1 70:	16	100	A O	0	Е
16		25	E		
71: 17	16	0	O A	0	Е
72: 1	16	0 100	0 A	0	Е
73:	16	0	0	0	Е
16 74:	16	25 0	E O	0	Е
17 75:	16	0	A O	0	Е
1		100	A		
76: 16	16	0 25	O E	0	Е
77:	16	0	0	0	Е
17 78:	16	0	A O	0	Е
1 79:	16	100	A O	0	Е
16		25	E		
80: 17	16	0	O A	0	Е
81: 1	16	0 100	0 A	0	Е
82:	16	0	0	0	Е
16 83:	16	25 0	E O	0	Е
17		0	A		
84: 1		0 100	O A	0	Е
85: 16	16	0 25	O E	0	Е
86:	16	0	0	0	Е
17 87:	16	0	A O	0	Е
1 88:	16	100	A O	0	Е
16		25	E		
89: 17	16	0	O A	0	Е
90:	16	0	0	0	E
1 91:	16	100	A 0	0	Е
16 92:	16	25 0	E O	0	Е
17		0	A		
93: 1		0 100	O A	0	Е
94: 16	16	0 25	O E	0	Е
95:	16	0	0	0	E
			1.7		

17		0	A		
96: 1	16	0	0	0	Е
1		100	Å		
97: 1	16	0	0	0	Е
16	1.0	25	E	0	D
98: 1 17	10	0	O A	0	Е
99: 1	16	0	0	0	Е
1		100	A		
100:	16	0	0	0	Е
16 101:	16	25 0	E O	0	Е
17	10	0	A	U	Ľ
102:	16	0	0	0	Е
1		100	A		_
103:	16	0 25	0	0	Е
16 104:	16	0	E O	0	Е
17	10	0	Ä	·	L
105:	16	0	0	0	Е
1	1.0	100	A	0	D
106: 16	10	0 25	O E	0	Е
107:	16	0	0	0	Е
17		0	A		
108:	16	0	0	0	Е
1 109:	16	100	A O	0	Е
16	10	25	Ë	·	L
110:	16	0	0	0	Е
17	1.6	0	A	0	E
111: 1	10	0 100	O A	0	Е
112:	16	0	0	0	Е
16		25	E		
	16	0	0	0	Е
17 114:	16	0	A O	0	Е
1	10	100	Ä	·	L
115:	16	0	0	0	Е
16 116:	1.6	25 0	E O	0	E
170. 17	10	0	A	U	Е
117:	16	0	0	0	Е
1		100	A		_
118: 16	16	0 25	O E	0	Е
119:	16	0	0	0	Е
17	10	0	Å		L
120:	16	0	0	0	Е
1 121:	16	100	A O	0	Е
16	10	25	E	U	Ľ
122:	16	0	0	0	Е
17		0	A	0	Г
123:	16	0	0	0	Е

1		100	A		
124: 16	16	0 25	0 E	0	Е
125:	16	0	0	0	Е
17 126:	16	0	A O	0	Е
1 127:		100	A O	0	Е
16		25	E		
128: 17	16	0	O A	0	Е
129: 1	16	0 100	O A	0	Е
130:	16	0	0	0	Е
16 131:	16	25 0	E 0	0	Е
17 132:	16	0	A O	0	Е
1		100	A		
133: 16	16	0 25	0 E	0	Е
134:	16	0	0	0	E
17 135:	16	0	A 0	0	Е
1 136:	16	100	A O	0	Е
16 137:		25 0	E O	0	Е
17		0	A		
138: 1		0 100	O A	0	Е
139: 16	16	0 25	0 E	0	Е
140: 17	16	0 0	0	0	Е
141:	16	0	A 0	0	Е
1 142:	16	100 0	A 0	0	Е
16		25	E	0	
143: 17	16	0	O A	0	Е
144: 1	16	0 100	0 A	0	Е
145:	16	0	0	0	Е
16 146:	16	25 0	E 0	0	Е
17 147:	16	0	A O	0	Е
1 148:		100 0	A O	0	Е
16		25	E		
149: 17	16	0	O A	0	Е
150: 1	16	0 100	O A	0	Е
151:	16	0	0	0	Е

16		25	Е		
152:	16	0	0	0	Е
17 153:	16	0	A O	0	Е
1		100	A		
154: 16	16	0 25	0 E	0	Е
155:	16	0	0	0	Е
17 156:	16	0	A O	0	Е
1		100	A		
157: 16	16	0 25	0 E	0	Е
158:	16	0	0	0	Е
17 159:	16	0	A O	0	Е
1		100	A		
160: 16	16	0 25	0 E	0	Е
161:	16	0	0	0	Е
17 162:	16	0	A O	0	Е
1		100	A		
163: 16	16	0 25	0 E	0	Е
164:	16	0	0	0	Е
17 165:	16	0	A O	0	Е
1		100	A		
166: 16	10	0 25	0 E	0	Е
167: 17	16	0	0	0	Е
168:	16	0	A O	0	Е
1	16	100	A	0	E
169: 16	16	0 25	O E	0	Е
170: 17	16	0	O A	0	Е
171:	16	0	0	0	Е
1 172:	16	100	A O	0	Е
16		25	E		E
173: 17	16	0	O A	0	Е
174:	16	0	0	0	Е
1 175:	16	100	A O	0	Е
16		25	E		
176: 17	16	0	O A	0	Е
177:	17	100	100	100	A
1 178:	17	100 100	A 100	100	A
16		25	E		
179:	17	100	100	100	A

Disk IOS: 4734

SELECT course.sid, course.grade, course2.grade FROM course, course2 WHERE course.sid = course2.sid \*\*\*\*\*\*\*RELATION DUMP BEGIN\*\*\*\*\*\*

course. sid         course. grade           0: 1         A           2         B           B         B           1: 3         C           C         C           2: 4         D           D         D           5         A           3: 6         B           B         B           16         E           E         E           16         E           E: 16         E	*****KFLATION	DUMP		
0: 1			course.grade	course2.grade
2	0: 1	A	A	
3	2			
3	1: 3	C		
3: 6	3			
3: 6	2. 1			
3: 6	∠. 4			
16       E       E       E         16       E       E       E         5: 16       E       E       E         16       E       E       E         6: 16       E       E       E         10: 16       E       E       E         11: 16       E       E       E         11: 16       E       E       E         12: 16       E       E       E         13: 16       E       E       E         14: 16       E       E       E         16: E       E </td <td>0</td> <td></td> <td></td> <td></td>	0			
4: 16	3: 6	В		
16       E       E         10: 16       E       E         10: 16       E       E         10: 16       E       E         11: 16       E       E         16       E       E         11: 16       E       E         16: E       E       E         16: E       E       E         16: E       E       E				
5: 16				
5: 16	16	Е	Е	
16       E       E       E         16       E       E       E         7: 16       E       E       E         16       E       E       E         16       E       E       E         10: 16       E       E       E         10: 16       E       E       E         10: 16       E       E       E         16       E       E       E         16       E       E       E         16       E       E       E         13: 16       E       E       E         14: 16       E       E       E         16: 16       E       E       E         16: 16       E       E       E         16: 16       E       E       E         17: 16       E       E       E         16: E       E <td></td> <td></td> <td></td> <td></td>				
6: 16				
16       E       E         7: 16       E       E         16       E       E         8: 16       E       E         16       E       E         9: 16       E       E         16       E       E         10: 16       E       E         16       E       E         11: 16       E       E         16       E       E         12: 16       E       E         13: 16       E       E         14: 16       E       E         15: 16       E       E         16: 16				
7: 16				
16       E       E         8: 16       E       E         16       E       E         9: 16       E       E         16       E       E         10: 16       E       E         16       E       E         11: 16       E       E         16       E       E         16       E       E         12: 16       E       E         16       E       E         13: 16       E       E         16       E       E         16: 16       E       E         16: 16       E       E         16: 16       E       E         17: 16       E       E         16: E       E       E         19: 16       E       E         20: 16       E       E         21: 16       E       E         22: 16       E       E         23: 16       E       E				
8: 16				
16       E       E         16       E       E         16       E       E         10: 16       E       E         16       E       E         11: 16       E       E         16       E       E         16: 16 <td></td> <td></td> <td></td> <td></td>				
9: 16				
16       E       E         10: 16       E       E         16       E       E         11: 16       E       E         16       E       E         16       E       E         13: 16       E       E         16: 16       E       E         16: 16       E       E         17: 16       E       E         18: 16       E       E         19: 16       E       E         16       E       E         20: 16       E       E         21: 16       E       E         16       E       E         22: 16       E       E         23: 16       E       E				
16       E       E         10: 16       E       E         16       E       E         11: 16       E       E         16       E       E         16       E       E         13: 16       E       E         16: 16       E       E         16: 16       E       E         17: 16       E       E         18: 16       E       E         19: 16       E       E         16       E       E         20: 16       E       E         21: 16       E       E         16       E       E         22: 16       E       E         23: 16       E       E	9: 16	Е	Е	
10: 16       E       E         16       E       E         11: 16       E       E         16       E       E         12: 16       E       E         16       E       E         13: 16       E       E         16       E       E         16       E       E         16       E       E         16: 16			Е	
16       E       E         11: 16       E       E         16       E       E         12: 16       E       E         16       E       E         13: 16       E       E         16       E       E         16       E       E         16       E       E         16: E       E       E         19: 16       E       E         20: 16       E       E         21: 16       E       E         22: 16       E       E         23: 16       E       E				
11: 16       E       E         16       E       E         12: 16       E       E         16       E       E         13: 16       E       E         16: E       E				
16       E       E         12: 16       E       E         16       E       E         13: 16       E       E         16: 16       E       E         16: 16       E       E         16: 16       E       E         16: E       E       E         18: 16       E       E         19: 16       E       E         20: 16       E       E         21: 16       E       E         22: 16       E       E         23: 16       E       E				
12: 16       E       E         16       E       E         13: 16       E       E         16       E       E         14: 16       E       E         16       E       E         15: 16       E       E         16: 16       E       E         16: 16       E       E         16: 16       E       E         16: E       E       E         18: 16       E       E         19: 16       E       E         16       E       E         20: 16       E       E         16       E       E         21: 16       E       E         16       E       E         22: 16       E       E         23: 16       E       E				
16       E       E         13: 16       E       E         16       E       E         14: 16       E       E         16       E       E         15: 16       E       E         16       E       E         16: 16       E       E         16       E       E         16       E       E         18: 16       E       E         19: 16       E       E         16       E       E         20: 16       E       E         21: 16       E       E         22: 16       E       E         23: 16       E       E				
13: 16       E       E         16       E       E         14: 16       E       E         16       E       E         15: 16       E       E         16       E       E         16: 16       E       E         16: 16       E       E         16: 16       E       E         18: 16       E       E         19: 16       E       E         16       E       E         20: 16       E       E         16       E       E         21: 16       E       E         16       E       E         22: 16       E       E         23: 16       E       E				
16       E       E         14: 16       E       E         16       E       E         15: 16       E       E         16       E       E         16: 16       E       E         16: 16       E       E         16: 16       E       E         18: 16       E       E         18: 16       E       E         19: 16       E       E         16       E       E         20: 16       E       E         16       E       E         21: 16       E       E         16       E       E         22: 16       E       E         23: 16       E       E				
14: 16       E       E         16       E       E         15: 16       E       E         16       E       E         16: 16       E       E         16       E       E         17: 16       E       E         16       E       E         18: 16       E       E         19: 16       E       E         16       E       E         20: 16       E       E         21: 16       E       E         16       E       E         22: 16       E       E         23: 16       E       E				
16       E       E         15: 16       E       E         16       E       E         16: 16       E       E         16       E       E         17: 16       E       E         16       E       E         18: 16       E       E         19: 16       E       E         16       E       E         20: 16       E       E         21: 16       E       E         16       E       E         22: 16       E       E         23: 16       E       E		Е	Е	
16       E       E         15: 16       E       E         16       E       E         16: 16       E       E         16       E       E         17: 16       E       E         16       E       E         18: 16       E       E         19: 16       E       E         16       E       E         20: 16       E       E         21: 16       E       E         16       E       E         22: 16       E       E         23: 16       E       E	14: 16	Е	Е	
15: 16				
16       E       E         16: 16       E       E         16       E       E         17: 16       E       E         16       E       E         18: 16       E       E         16       E       E         19: 16       E       E         16       E       E         20: 16       E       E         16       E       E         21: 16       E       E         22: 16       E       E         23: 16       E       E				
16: 16       E       E         16       E       E         17: 16       E       E         16       E       E         18: 16       E       E         16       E       E         19: 16       E       E         16       E       E         20: 16       E       E         16       E       E         21: 16       E       E         16       E       E         22: 16       E       E         23: 16       E       E				
16       E       E         17: 16       E       E         16       E       E         18: 16       E       E         16       E       E         19: 16       E       E         16       E       E         20: 16       E       E         16       E       E         21: 16       E       E         16       E       E         22: 16       E       E         23: 16       E       E				
17: 16       E       E         16       E       E         18: 16       E       E         16       E       E         19: 16       E       E         16       E       E         20: 16       E       E         16       E       E         21: 16       E       E         16       E       E         22: 16       E       E         23: 16       E       E				
16       E       E         18: 16       E       E         16       E       E         19: 16       E       E         16       E       E         20: 16       E       E         16       E       E         21: 16       E       E         16       E       E         22: 16       E       E         23: 16       E       E		E	L F	
18: 16       E       E         16       E       E         19: 16       E       E         16       E       E         20: 16       E       E         16       E       E         21: 16       E       E         16       E       E         22: 16       E       E         23: 16       E       E				
16       E       E         19: 16       E       E         16       E       E         20: 16       E       E         16       E       E         21: 16       E       E         16       E       E         22: 16       E       E         16       E       E         23: 16       E       E				
19: 16	18: 16	Е	Е	
19: 16	16	Е	Е	
16       E       E         20: 16       E       E         16       E       E         21: 16       E       E         16       E       E         22: 16       E       E         16       E       E         23: 16       E       E		Е		
20: 16		Ē		
16 E E E 21: 16 E E 16 E E 22: 16 E E 16 E E 23: 16 E E		F		
21: 16	16			
16 E E E E E 16 E E E 23: 16 E E E	21 · 16	E E		
22: 16 E E E E 23: 16 E E	41. IU			
16 E E E 23: 16 E	10	E E		
23: 16 E E	22: 16			
23: 16 E E E E	16	Е		
16 E E	23: 16	Е	Е	
	16	Е	E	

24: 17 A A A A

\*\*\*\*\*RELATION DUMP END\*\*\*\*

Disk IOS: 5234

SELECT DISTINCT course.grade, course2.grade FROM course, course2 WHERE course.sid = course2.sid

\*\*\*\*\*RELATION DUMP BEGIN\*\*\*\*

course.grade course2.grade
0: A A
B B
C C
D D
1: E E

\*\*\*\*\*RELATION DUMP END\*\*\*\*

Disk IOS: 5740

 $\label{eq:select} \mbox{SELECT * FROM course, course2 WHERE course.sid = course2.sid ORDER BY course.exam}$ 

\*\*\*\*\*RELATION DUMP BEGIN\*\*\*\*

course, exam         course grade         course sid           course cours	course.sid		course.homework	course.project	
0: 16       0       0       0       E         16       25       E       E         1: 16       0       0       0       E         16       25       E       E         2: 16       0       0       0       E         16       25       E       E         3: 16       0       0       0       E         16       25       E       E         4: 16       0       0       0       E         16       25       E       E         5: 16       0       0       0       E         16       25       E       E         7: 16       0       0       0       E         16       25       E       E         8: 16       0       0       0       E         9: 16       0       0       0       E         16       25       E       E         11: 16       0       0       0       E         16       25       E       E         12: 16       0       0       0       E         16       25 <td>course.exam</td> <td></td> <td>course.grade</td> <td colspan="2"></td>	course.exam		course.grade		
16       25       E         1: 16       0       0       0       E         16       25       E       E         2: 16       0       0       0       E         16       25       E       E         3: 16       0       0       0       E         16       25       E       E         4: 16       0       0       0       E         16       25       E       E         5: 16       0       0       0       E         6: 16       25       E       E         6: 16       0       0       0       E         16       25       E       E         7: 16       0       0       0       E         16       25       E       E         9: 16       0       0       0       E         16       25       E       E         10: 16       0       0       0       E         16       25       E       E         11: 16       0       0       0       E         16       25       E       E <td></td> <td></td> <td>course2.grade</td> <td></td> <td></td>			course2.grade		
1: 16			0	0	Е
16       25       E         2:       16       0       0       0       E         16       25       E       0       0       E         3:       16       0       0       0       E       E         4:       16       0       0       0       0       E					
2: 16				0	Е
16       25       E         3: 16       0       0       0       E         16       25       E       E         4: 16       0       0       0       E         16       25       E       E         5: 16       0       0       0       E         16       25       E       E         6: 16       0       0       0       E         16       25       E       E         7: 16       0       0       0       E         16       25       E       E         9: 16       0       0       0       E         16       25       E       E         10: 16       0       0       0       E         16       25       E       E         11: 16       0       0       0       E         16       25       E       E         13: 16       0       0       0       E         16       25       E       E         14: 16       0       0       0       E         16: 16       25       E       E					
3: 16	2: 16			0	Е
16       25       E         4: 16       0       0       0       E         16       25       E       E         5: 16       0       0       0       E         16       25       E       E         6: 16       0       0       0       E         16       25       E       E         7: 16       0       0       0       E         16       25       E       E         8: 16       0       0       0       E         16       25       E       E         9: 16       0       0       0       E         16: 16       25       E       E         10: 16       0       0       0       E         16: 16       25       E       E         11: 16       0       0       0       E         16       25       E       E         13: 16       0       0       0       E         16: 16       25       E       E         16: 16       0       0       0       E					
4: 16       0       0       0       E         16       25       E       E         5: 16       0       0       0       E         16       25       E       E         6: 16       0       0       0       E         16       25       E       E         8: 16       0       0       0       E         16       25       E       E         9: 16       0       0       0       E         16       25       E       E         10: 16       0       0       0       E         16: 16       25       E       E         11: 16       0       0       0       E         16: 16       25       E       E         13: 16       0       0       0       E         16: 16       0       0       0       E         16: 16       0       0       0       E				0	Е
16       25       E         5: 16       0       0       0       E         16       25       E       E         6: 16       0       0       0       E         16       25       E       E         7: 16       0       0       0       E         16       25       E       E         8: 16       0       0       0       E         16       25       E       E         9: 16       0       0       0       E         16       25       E       E         10: 16       0       0       0       E         16       25       E       E         11: 16       0       0       0       E         16       25       E       E         13: 16       0       0       0       E         14: 16       0       0       0       E         16       25       E       E         15: 16       0       0       0       E         16: 16       0       0       0       E					
5: 16       0       0       0       E         16       25       E       E         6: 16       0       0       0       E         16       25       E       E         7: 16       0       0       0       E         16       25       E       E         9: 16       0       0       0       E         16       25       E       E         10: 16       0       0       0       E         16       25       E       E         11: 16       0       0       0       E         16       25       E       E         12: 16       0       0       0       E         16       25       E       E         13: 16       0       0       0       E         16       25       E       E         14: 16       0       0       0       E         16: 16       25       E       E				0	Е
16       25       E         6: 16       0       0       0       E         16       25       E       E         7: 16       0       0       0       E         16       25       E       E         8: 16       0       0       0       E         16       25       E       E         9: 16       0       0       0       E         16       25       E       E         10: 16       0       0       0       E         16       25       E       E         11: 16       0       0       0       E         16       25       E       E         13: 16       0       0       0       E         16       25       E       E         14: 16       0       0       0       E         16       25       E       E         15: 16       0       0       0       E         16: 16       0       0       0       E					
6: 16				0	Е
16       25       E         7: 16       0       0       E         16       25       E         8: 16       0       0       0       E         16       25       E	16				
7: 16	6: 16			0	Е
16       25       E         8: 16       0       0       0       E         16       25       E       0       0       E         9: 16       0       0       0       E       0       0       E         10: 16       0       0       0       0       E       0       0       0       E       0       0       0       E       0       0       0       0       0       0       0       0       0       0       0       0	16				
8: 16				0	Е
16       25       E         9: 16       0       0       0       E         16       25       E       10: 16       0       0       E         16       25       E       0       0       E       E         11: 16       0       0       0       0       E <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
9: 16       0       0       0       E         16       25       E       E         10: 16       0       0       0       E         16       25       E       E         11: 16       0       0       0       E         16       25       E       E         13: 16       0       0       0       E         16       25       E       E         14: 16       0       0       0       E         16: 16       0       0       0       E         16: 16       0       0       0       E				0	Е
16       25       E         10: 16       0       0       0       E         16       25       E       0       0       E         11: 16       0       0       0       E       0       E         16       25       E       0       0       0       E       0       0<					
10: 16       0       0       0       E         16       25       E       E         11: 16       0       0       0       E         16       25       E       E         12: 16       0       0       0       E         16       25       E       E         13: 16       0       0       0       E         16       25       E       E         14: 16       0       0       0       E         15: 16       0       0       0       E         16: 16       0       0       0       E				0	Е
16       25       E         11: 16       0       0       0       E         16       25       E       E         12: 16       0       0       0       E         16       25       E       E         13: 16       0       0       0       E         16       25       E       E         14: 16       0       0       0       E         16: 16       0       0       0       E         16: 16       0       0       0       E					
11: 16       0       0       0       E         16       25       E       E         12: 16       0       0       0       E         16       25       E       E         13: 16       0       0       0       E         16       25       E       E         14: 16       0       0       0       E         16: 16       0       0       0       E         16: 16       0       0       0       E				0	Е
16       25       E         12: 16       0       0       0       E         16       25       E       E         13: 16       0       0       0       E         16       25       E       E         14: 16       0       0       0       E         16       25       E       E         15: 16       0       0       0       E         16: 16       0       0       0       E					
12: 16       0       0       0       E         16       25       E       E         13: 16       0       0       0       E         16       25       E       E         14: 16       0       0       0       E         16       25       E       E         15: 16       0       0       0       E         16: 16       0       0       0       E	11: 16			0	E
16       25       E         13: 16       0       0       0       E         16       25       E       E         14: 16       0       0       0       E         16       25       E       E         15: 16       0       0       0       E         16       25       E       E         16: 16       0       0       0       E					_
13: 16       0       0       0       E         16       25       E       E         14: 16       0       0       0       E         16       25       E       E         15: 16       0       0       0       E         16       25       E       E         16: 16       0       0       0       E				0	E
16     25     E       14: 16     0     0     0     E       16     25     E       15: 16     0     0     0     E       16     25     E       16: 16     0     0     0     E					-
14: 16     0     0     0     E       16: 16     25     E       15: 16     0     0     0     E       16: 16     0     0     0     E	13: 16			0	E
16       25       E         15: 16       0       0       0       E         16       25       E       E         16: 16       0       0       0       E					-
15: 16 0 0 0 E 16 25 E 16: 16 0 0 0 E				0	E
16 25 E 16: 16 0 0 E					_
16: 16 0 0 E				0	E
					_
	16: 16	U	()	0	E

16		25	Е		
17:	16	0	0	0	Е
16		25	Е		
	16	0	0	0	Е
16	1.0	25	E	^	_
19:	16	0	0	0	Е
16 20:	16	25 0	E O	0	Е
16	10	25	E	U	Ľ
	16	0	0	0	Е
16		25	E		
22:	16	0	0	0	Е
16	1.0	25	E	0	Г
23: 16	16	0 25	O E	0	Е
	16	0	0	0	Е
16	10	25	Ë	O	ப
25:	16	0	$\overline{0}$	0	Е
16		25	E		
	16	0	0	0	Е
16	1.0	25	E	0	D
27: 16	16	0 25	O E	0	Е
28:	16	0	0	0	Е
16	10	25	Ë	O	L
29:	16	0	0	0	Е
16		25	E		
30:	16	0	0	0	Е
16 31:	16	25 0	E	0	Б
16	10	25	O E	U	Е
32:	16	0	0	0	Е
16		25	E		
	16	0	0	0	Е
16	1.0	25	E	0	Б
34:	16	0	0	0	Е
16 35:	16	25 0	E O	0	Е
16	10	25	E	O	L
36:	16	0	$\overline{0}$	0	Е
16		25	Е		
37:	16	0	0	0	Е
16	1.0	25	E	0	Б
38: 16	16	0 25	0 E	0	Е
39:	16	0	0	0	Е
16		25	Ë	v	_
40:	16	0	0	0	Е
16	1.0	25	E	^	_
41:	16	0	0	0	Е
16 42:	3	25 100	E 69	64	С
3	U	98	C	01	O
43:	6	100	100	65	В
6		65	В		
44:	5	100	100	66	A

5	66	A		
45: 4	100	100	97	D
4 46: 3	97 100	D 100	98	С
3	98	C	90	C
47: 2	100	100	99	В
2	99	B	100	Λ
48: 17 17	100	100 A	100	A
49: 1	99	100	100	A
1	100	A 100	100	Λ
50: 17 17	100	100 A	100	A
	DUMP END****	•		
100 AND course			= course2.sid AN	ND course.exam =
course.sid	course	.homework	course.project	
course. exam	course	0	course2.sid	
course2.exam 0: 1	99	2. grade 100	100	A
1	100	A		
*****RELATION Disk IOS: 6809	DUMP END****			
100 OR course2			= course2.sid AM	ND [ course.exam =
course.sid	course	.homework	course.project	
course.exam course2.exam	course		course2.sid	
0: 1	99	2. grade 100	100	A
1	100	A		
1: 17 17	100 0	100	100	A
2: 17	100	A 100	100	A
17	0	A		
******RELATION Disk IOS: 7173	DUMP END****			
SELECT * FROM	course, course2	WHERE course.sid	= course2.sid AM	ND course.exam >
course2. exam	DUMP BEGIN***	slasla		
course. sid		. homework	course.project	
course.exam	course	. grade	course2. sid	
course2.exam		2. grade	100	Λ
0: 17 17	100	100 A	100	A
1: 17	100	100	100	A
17	100	100	100	• •
	0 DUMP END****	A		

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

Disk IOS: 7535

course2. exam AND course. homework = 100 \*\*\*\*\*RELATION DUMP BEGIN\*\*\*\* course. sid course. homework course, project course. grade course2.sid course. exam course2.exam course2. grade 0: 17 100 100 100 Α 17 0 Α 1: 17 100 100 100 Α 17 ()Α \*\*\*\*\*RELATION DUMP END\*\*\*\* Disk IOS: 7897 SELECT \* FROM course, course2 WHERE course.sid = course2.sid AND [ course.exam > course2. exam OR course. homework = 100 \*\*\*\*\*RELATION DUMP BEGIN\*\*\*\* course. project course. sid course. homework course2.sid course. exam course. grade course2. exam course2. grade 0: 2 100 100 99 В 2 99 В 1: 3 69 C 100 64 3 98 C 2: 3 100 100 98 C 3 98 C 3: 4 100 100 97 D 4 97 D 4: 5 100 100 66 Α 5 66 Α 5: 6 100 100 65 В 65 В 6 100 6: 17 100 100 Α 17 0 Α 7: 17 100 100 100 A 17 () A \*\*\*\*\*RELATION DUMP END\*\*\*\* Disk IOS: 8271 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 \*\*\*\*\*RELATION DUMP BEGIN\*\*\*\* course. grade course2. grade 0: A A \*\*\*\*\*RELATION DUMP END\*\*\*\* Disk IOS: 8643 SELECT \* FROM r, s, t WHERE r.a=t.a AND r.b=s.b AND s.c=t.c \*\*\*\*\*RELATION DUMP BEGIN\*\*\*\* r.b s.b r. a s.c t.a t.c \*\*\*\*\*RELATION DUMP END\*\*\*\* Disk IOS: 9018 SELECT \* FROM t1, t2, t3, t4, t5, t6

t3. c

t4. c

t5. c

\*\*\*\*\*RELATION DUMP BEGIN\*\*\*\* t2. c

t1. c

t6. c

\*\*\*\*\*\*RELATION DUMP END\*\*\*\*\*
Disk IOS: 9054