

Figure 2.9 Schema diagram for the university database.

Section

course id	sec id	semester	year	building	room number	time slot id
BIO-101	1	Summer	2017	Painter	514	В
BIO-301	1	Summer	2018	Painter	514	A
CS-101	1	Fall	2017	Packard	101	Н
CS-101	1	Spring	2018	Packard	101	F
CS-190	1	Spring	2017	Taylor	3128	E
CS-190	2	Spring	2017	Taylor	3128	A
CS-315	1	Spring	2018	Watson	120	D
CS-319	1	Spring	2018	Watson	100	В
CS-319	2	Spring	2018	Taylor	3128	С
CS-347	1	Fall	2017	Taylor	3128	A
EE-181	1	Spring	2017	Taylor	3128	С
FIN-201	1	Spring	2018	Packard	101	В
HIS-351	1	Spring	2018	Painter	514	С
MU-199	1	Spring	2018	Packard	101	D
PHY-101	1	Fall	2017	Watson	100	A

Classroom

building	room_number	capacity
Packard	101	500
Painter	514	10
Taylor	3128	70
Watson	100	30
Watson	120	50

Takes

ID	course_id	sec_id	semester	year	grade
00128	CS-101	1	Fall	2017	A
00128	CS-347	1	Fall	2017	A-
12345	CS-101	1	Fall	2017	C
12345	CS-190	2	Spring	2017	А
12345	CS-315	1	Spring	2018	Α
12345	CS-347	1	Fall	2017	A
19991	HIS-351	1	Spring	2018	В
23121	FIN-201	1	Spring	2018	C+
44553	PHY-101	1	Fall	2017	В-
45678	CS-101	1	Fall	2017	F
45678	CS-101	1	Spring	2018	B+
45678	CS-319	1	Spring	2018	В
54321	CS-101	1	Fall	2017	A-
54321	CS-190	2	Spring	2017	B+
55739	MU-199	1	Spring	2018	Α-
76543	CS-101	1	Fall	2017	А
76543	CS-319	2	Spring	2018	Α
76653	EE-181	1	Spring	2017	C
98765	CS-101	1	Fall	2017	C-
98765	CS-315	1	Spring	2018	В
98988	BIO-101	1	Summer	2017	А
98988	BIO-301	1	Summer	2018	

Time_slot

time_slot_id	day	start_hr	start_min	end_hr	end_min
А	М	8	0	8	50
A	N	8	0	8	50
A	F	8	0	8	50
В	M	9	0	9	50
В	ы	9	0	9	50
В	F	9	0	9	50
c	М	11	0	11	50
c	ы	11	0	11	50
С	F	11	0	11	50
D	М	13	0	13	50
D	W	13	0	13	50
D	F	13	0	13	50
E	Т	10	30	11	45
Ε	R	10	30	11	45
F	T	14	30	15	45
F	R	14	30	15	45
G	М	16	0	16	50
G	W	16	0	16	50
G	F	16	0	16	50
н	ы	10	0	12	30

Teaches

ID	course_id	sec_id	semester	year
10101	CS-101	1	Fall	2017
10101	CS-315	1	Spring	2018
10101	CS-347	1	Fall	2017
12121	FIN-201	1	Spring	2018
15151	MU-199	1	Spring	2018
22222	PHY-101	1	Fall	2017
32343	HIS-351	1	Spring	2018
45565	CS-101	1	Spring	2018
45565	CS-319	1	Spring	2018
76766	BIO-101	1	Summer	2017
76766	BIO-301	1	Summer	2018
83821	CS-190	1	Spring	2017
83821	CS-190	2	Spring	2017
83821	CS-319	2	Spring	2018
98345	EE-181	1	Spring	2017

Courses

course_id	title	dept_name	credit
810-101	Intro. to Biology	Biology	4
BIO-301	Genetics	Biology	4
BIO-399	Computational Biology	Biology	3
CS-101	Intro. to Computer Science	Comp. Sci.	4
CS-190	Game Design	Comp. Sci.	4
CS-315	Robotics	Comp. Sci.	3
CS-319	Image Processing	Comp. Sci.	3
CS-347	Database System Concepts	Comp. Sci.	3
EE-181	Intro. to Digital Systems	Elec. Eng.	3
FIN-201	Investment Banking	Finance	3
HIS-351	World History	History	3
MU-199	Music Video Production	Music	3
PHY-101	Physical Principles	Physics	4

Prereq

course_id	prereq_id
BIO-301	BIO-101
BIO-399	BIO-101
CS-190	CS-101
CS-315	CS-101
CS-319	CS-101
CS-347	CS-101
EE-181	PHY-101

Student

ID	name	dept_name	tot_cred
00128	Zhang	Comp. Sci.	102
12345	Shankar	Comp. Sci.	32
19991	Brandt	History	80
23121	Chavez	Finance	110
44553	Peltier	Physics	56
45678	Levy	Physics	46
54321	Williams	Comp. Sci.	54
55739	Sanchez	Music	38
70557	Snow	Physics	0
76543	Brown	Comp. Sci.	58
76653	Aoi	Elec. Eng.	60
98765	Bourikas	Elec. Eng.	98
98988	Tanaka	Biology	120

Department

dept_name	building	budget
Biology	Watson	90000
Comp. Sci.	Taylor	100000
Elec. Eng.	Taylor	85000
Finance	Painter	120000
History	Painter	50000
Music	Packard	80000
Physics	Watson	70000

Instructor

ID	name	dept_name	salary
10101	Srinivasan	Comp. Sci.	65000
12121	Nu	Finance	90000
15151	Mozart	Music	40000
22222	Einstein	Physics	95000
32343	El Said	History	60000
33456	Gold	Physics	87000
45565	Katz	Comp. Sci.	75000
58583	Califieri	History	62000
76543	Singh	Finance	80000
76766	Crick	Biology	72000
83821	Brandt	Comp. Sci.	92000
98345	Kim	Elec. Eng.	80000

Advisor

5_	ID	i_ID
00	128	45565
12	345	10101
23:	121	76543
44	553	22222
45	678	22222
76	543	45565
76	653	98345
98	765	98345
989	988	76766