

## DBMS LAB 1

1. Create table student with following attribute.

- S\_ID
- S\_NAME
- D\_NAME
- TOT\_CRED

2. Create table instructor with following attribute

- INST\_ID
- INST\_NAME
- D\_NAME
- SAL

3. Create table course with following attribute

- C\_ID
- TITLE
- D\_NAME
- CRED

4. create table takes with following attribute

- S\_ID
- C\_ID
- SEC\_ID
- SEM
- YEAR
- GRADE

5. create table department with following fields

- D\_NAME
- BUILDING
- BUDGET

6. Create table section with following fields

- C\_ID
- SEC\_ID
- SEM
- YEAR

7 create table teaches with following fields

## DBMS LAB 1

- INST\_ID
- C\_ID
- SEC\_ID
- SEM
- YEAR

6. insert following data element into tables using insert into cmd

i) student

<i>ID</i>	<i>name</i>	<i>dept_name</i>	<i>tot_cred</i>
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

ii) Instructure

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

iii) course

<i>course_id</i>	<i>title</i>	<i>dept_name</i>	<i>credits</i>
BIO-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

iv) teaches

<i>ID</i>	<i>course_id</i>	<i>sec_id</i>	<i>semester</i>	<i>year</i>
10101	CS-101	1	Fall	2009
10101	CS-315	1	Spring	2010
10101	CS-347	1	Fall	2009
12121	FIN-201	1	Spring	2010
15151	MU-199	1	Spring	2010
22222	PHY-101	1	Fall	2009
32343	HIS-351	1	Spring	2010
45565	CS-101	1	Spring	2010
45565	CS-319	1	Spring	2010
76766	BIO-101	1	Summer	2009
76766	BIO-301	1	Summer	2010
83821	CS-190	1	Spring	2009
83821	CS-190	2	Spring	2009
83821	CS-319	2	Spring	2010
98345	EE-181	1	Spring	2009

S

v) department

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

vi) takes

<i>ID</i>	<i>course_id</i>	<i>sec_id</i>	<i>semester</i>	<i>year</i>	<i>grade</i>
00128	CS-101	1	Fall	2009	10
00128	CS-347	1	Fall	2009	9
12345	CS-101	1	Fall	2009	5
12345	CS-190	2	Spring	2009	10
12345	CS-315	1	Spring	2010	10
12345	CS-347	1	Fall	2009	10
19991	HIS-351	1	Spring	2010	7
23121	FIN-201	1	Spring	2010	6
44553	PHY-101	1	Fall	2009	6,5
45678	CS-101	1	Fall	2009	3
45678	CS-101	1	Spring	2010	8
45678	CS-319	1	Spring	2010	7
54321	CS-101	1	Fall	2009	9
54321	CS-190	2	Spring	2009	8
55739	MU-199	1	Spring	2010	9
76543	CS-101	1	Fall	2009	10
76543	CS-319	2	Spring	2010	10
76653	EE-181	1	Spring	2009	5
98765	CS-101	1	Fall	2009	4
98765	CS-315	1	Spring	2010	7
98988	BIO-101	1	Summer	2009	9
98988	BIO-301	1	Summer	2010	<i>null</i>

vii) section

<i>course_id</i>	<i>sec_id</i>	<i>semester</i>	<i>year</i>
BIO-101	1	Summer	2009
BIO-301	1	Summer	2010
CS-101	1	Fall	2009
CS-101	1	Spring	2010
CS-190	1	Spring	2009
CS-190	2	Spring	2009
CS-315	1	Spring	2010
CS-319	1	Spring	2010
CS-319	2	Spring	2010
CS-347	1	Fall	2009
EE-181	1	Spring	2009
FIN-201	1	Spring	2010
HIS-351	1	Spring	2010
MU-199	1	Spring	2010
PHY-101	1	Fall	2009

7. Add one new column (building) in section table.

8. Insert building name in the section table (To insert)

<i>course_id</i>	<i>sec_id</i>	<i>building</i>
BIO-101	1	Painter
BIO-301	1	Painter
CS-101	1	Packard
CS-101	1	Packard
CS-190	1	Taylor
CS-190	2	Taylor
CS-315	1	Watson
CS-319	1	Watson
CS-319	2	Taylor
CS-347	1	Taylor
EE-181	1	Taylor
FIN-201	1	Packard
HIS-351	1	Painter
MU-199	1	Packard
PHY-101	1	Watson