CSCD327 – Lab6

1)
update instructor
set salary = salary * 1.1
where dept_name = 'Comp. Sci.';

ID	name	dept_name	salary
10101	Srinivasan	Comp. Sci.	71500.00
12121	Wu	Finance	90000.00
15151	Mozart	Music	40000.00
22222	Einstein	Physics	95000.00
32343	El Said	History	60000.00
33456	Gold	Physics	87000.00
45565	Katz	Comp. Sci.	82500.00
58583	Califieri	History	62000.00
76543	Singh	Finance	80000.00
76766	Crick	Biology	72000.00
83821	Brandt	Comp. Sci.	101200.00
98345	Kim	Elec. Eng.	80000.00

2)
delete from course
where course_id not in
          (select course_id from section);

course_id	title	dept_name	credits
BIO-101	Intro. to Biology	Biology	4
BIO-301	Genetics	Biology	4
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

3)
create temporary table temp_instructor
select *
from instructor;

insert into temp_instructor
select id, name, dept_name, 10000
from student
where tot_cred > 100;

ID	name	dept_name	salary
10101	Srinivasan	Comp. Sci.	71500.00
12121	Wu	Finance	90000.00
15151	Mozart	Music	40000.00
22222	Einstein	Physics	95000.00
32343	El Said	History	60000.00
33456	Gold	Physics	87000.00
45565	Katz	Comp. Sci.	82500.00
58583	Califieri	History	62000.00
76543	Singh	Finance	80000.00
76766	Crick	Biology	72000.00
83821	Brandt	Comp. Sci.	101200.00
98345	Kim	Elec. Eng.	80000.00
00128	Zhang	Comp. Sci.	10000.00
23121	Chavez	Finance	10000.00
98988	Tanaka	Biology	10000.00

4)
create temporary table temp_course
select * from course;
create temporary table temp_section
select * from section;
create temporary table temp_takes
select * from takes;

insert into temp_course
values ('CS-001', 'Computer Basics', 'Comp. Sci.', 2);
insert into temp_section
values ('CS-001', 1, 'Winter', 2018, ' ', ' ', ' ');
insert into temp_takes
select ID, 'CS-001', 1, 'Winter', 2018, null
from student
where student.dept_name = 'Comp. Sci.';

ID	course_id	sec_id	semester	year	grade
00128	CS-101	1	Fall	2009	A
00128	CS-347	1	Fall	2009	A-
12345	CS-101	1	Fall	2009	C
12345	CS-190	2	Spring	2009	A
12345	CS-315	1	Spring	2010	A
12345	CS-347	1	Fall	2009	A
19991	HIS-351	1	Spring	2010	B
23121	FIN-201	1	Spring	2010	C+
44553	PHY-101	1	Fall	2009	B-
45678	CS-101	1	Fall	2009	F
45678	CS-101	1	Spring	2010	B+
45678	CS-319	1	Spring	2010	B
54321	CS-101	1	Fall	2009	A-
54321	CS-190	2	Spring	2009	B+
55739	MU-199	1	Spring	2010	A-
76543	CS-101	1	Fall	2009	A
76543	CS-319	2	Spring	2010	A
76653	EE-181	1	Spring	2009	C
98765	CS-101	1	Fall	2009	C-
98765	CS-315	1	Spring	2010	B
98988	BIO-101	1	Summer	2009	A
98988	BIO-301	1	Summer	2010	NULL
00128	CS-001	1	Winter	2018	NULL
12345	CS-001	1	Winter	2018	NULL
54321	CS-001	1	Winter	2018	NULL
76543	CS-001	1	Winter	2018	NULL

5)
create temporary table temp_takes1
select * from temp_takes;

delete from temp_takes1
where course_id = 'CS-001' and
        sec_id = 1 and
        semester = 'Winter' and
        year = 2018 and
        ID = (select ID
                from student
                where name = 'Zhang');

ID	course_id	sec_id	semester	year	grade
00128	CS-101	1	Fall	2009	A
00128	CS-347	1	Fall	2009	A-
12345	CS-101	1	Fall	2009	C
12345	CS-190	CS-101	Spring	2009	A
12345	CS-315	1	Spring	2010	A
12345	CS-347	1	Fall	2009	A
19991	HIS-351	1	Spring	2010	B
23121	FIN-201	1	Spring	2010	C+
44553	PHY-101	1	Fall	2009	B-
45678	CS-101	1	Fall	2009	F
45678	CS-101	1	Spring	2010	B+
45678	CS-319	1	Spring	2010	B
54321	CS-101	1	Fall	2009	A-
54321	CS-190	2	Spring	2009	B+
55739	MU-199	1	Spring	2010	A-
76543	CS-101	1	Fall	2009	A
76543	CS-319	2	Spring	2010	A
76653	EE-181	1	Spring	2009	C
98765	CS-101	1	Fall	2009	C-
98765	CS-315	1	Spring	2010	B
98988	BIO-101	1	Summer	2009	A
98988	BIO-301	1	Summer	2010	NULL
12345	CS-001	1	Winter	2018	NULL
54321	CS-001	1	Winter	2018	NULL
76543	CS-001	1	Winter	2018	NULL

6)
```
delete from temp_takes1
where course_id = (select course_id
                    from course
                    where lower(title) like '%database%');
```

ID	course_id	sec_id	semester	year	grade
00128	CS-101	1	Fall	2009	A
12345	CS-101	1	Fall	2009	C
12345	CS-190	2	Spring	2009	A
12345	CS-315	1	Spring	2010	A
19991	HIS-351	1	Spring	2010	B
23121	FIN-201	1	Spring	2010	C+
44553	PHY-101	1	Fall	2009	B-
45678	CS-101	1	Fall	2009	F
45678	CS-101	1	Spring	2010	B+
45678	CS-319	1	Spring	2010	B
54321	CS-101	1	Fall	2009	A-
54321	CS-190	2	Spring	2009	B+
55739	MU-199	1	Spring	2010	A-
76543	CS-101	1	Fall	2009	A
76543	CS-319	2	Spring	2010	A
76653	EE-181	1	Spring	2009	C
98765	CS-101	1	Fall	2009	C-
98765	CS-315	1	Spring	2010	B
98988	BIO-101	1	Summer	2009	A
98988	BIO-301	1	Summer	2010	NULL
12345	CS-001	1	Winter	2018	NULL
54321	CS-001	1	Winter	2018	NULL
76543	CS-001	1	Winter	2018	NULL

7)
create temporary table temp_student
select * from student;

update temp_student
set tot_cred = (select sum(temp_course.credits)
               from temp_takes1 join temp_course using(course_id)
               where temp_takes1.ID = temp_student.ID and
               (temp_takes1.grade != 'f' or temp_takes1.grade is not null));

ID	name	dept_name	tot_cred
00128	Zhang	Comp. Sci.	4
12345	Shankar	Comp. Sci.	11
19991	Brandt	History	3
23121	Chavez	Finance	3
44553	Peltier	Physics	4
45678	Levy	Physics	11
54321	Williams	Comp. Sci.	8
55739	Sanchez	Music	3
70557	Snow	Physics	NULL
76543	Brown	Comp. Sci.	7
76653	Aoi	Elec. Eng.	3
98765	Bourikas	Elec. Eng.	7
98988	Tanaka	Biology	4

8)
```
create table STORE_REPS(
 Rep_ID int(5),
 Last varchar(15),
 First varchar(10),
 Comm char(1) default 'Y',
 constraint Rep_ID primary key(Rep_ID) );
```

9)
```
alter table STORE_REPS
modify Last varchar(15) not null,
modify First varchar(10) not null;
```

10)
```
create table BOOK_STORES(
 Store_ID int(8) not null,
 Name varchar(30) unique not null,
 Contact varchar(20),
 Rep_ID int(5),
 primary key(Store_ID) );
```

11)
```
alter table BOOK_STORES
 modify Rep_ID int(5),
 add constraint book_stores_Rep_ID_fk
        foreign key(Rep_ID) references STORE_REPS(Rep_ID) on delete cascade;
```

12)
```
create table REP_CONTRACTS(
  Store_ID int(8) not null,
  Name int(5),
  Quarter char(3) not null,
  Rep_ID int(5) not null,
  constraint rep_contracts_pk primary key(Store_ID, Rep_ID, Quarter),
  constraint rep_contracts_store_id_fk foreign key(Store_ID)
        references BOOK_STORES(Store_ID),
  constraint rep_contracts_rep_id_fk foreign key(Rep_id)
        references STORE_REPS(Rep_ID));
```