

**Assignment – 8**  
**DBMS LAB (CSP362)**

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**1. Consider a table students\_modified with similar structure as students table. Write an SQL query to copy the complete students table into the students\_modified table.**

```
CREATE TABLE students_modified LIKE student;  
INSERT INTO students_modified  
SELECT *  
FROM student;
```

		* S_ID	S_NAME	D_NAME	TOT_CRE
		Filter	Filter	Filter	Filter
<input type="checkbox"/>	1	00128	Zhang	Comp. Sci.	102
<input type="checkbox"/>	2	12345	Shankar	Comp. Sci.	32
<input type="checkbox"/>	3	19991	Brandt	History	80
<input type="checkbox"/>	4	23121	Chavez	Finance	110
<input type="checkbox"/>	5	44553	Peltier	Physics	56
<input type="checkbox"/>	6	45678	Levy	Physics	46
<input type="checkbox"/>	7	54321	Williams	Comp. Sci.	54
<input type="checkbox"/>	8	55739	Sanchez	Music	38
<input type="checkbox"/>	9	70557	Snow	Physics	0
<input type="checkbox"/>	10	76543	Brown	Comp. Sci.	58
<input type="checkbox"/>	11	76653	Aoi	Elec. Eng.	60
<input type="checkbox"/>	12	98765	Bourikas	Elec. Eng.	98
<input type="checkbox"/>	13	98988	Tanaka	Biology	120

2. Assuming, we have instructor\_backup table available which is backup of instructor table. Write an SQL query to update SALARY by 0.25 times in the instructor\_backup table for all the instructor where department name is Physics.

```
CREATE TABLE instructor_backup
LIKE INSTRUCTOR;
INSERT INTO instructor_backup
SELECT *
FROM INSTRUCTOR;
Update instructor_backup
SET SAL=1.25*SAL
WHERE D_NAME="Physics";
```

		* INST_I	* INST_NAME	D_NAME	SAL
		Filter	Filter	Filter	Filter
	1	10101	Srinivasan	Comp. Sci.	65000
	2	12121	Wu	Finance	90000
	3	15151	Mozart	Music	40000
	4	22222	Einstein	Physics	118750
	5	32343	El Said	History	60000
	6	33456	Gold	Physics	108750
	7	45565	Katz	Comp. Sci.	75000
	8	58583	Califieri	History	62000
	9	76543	Singh	Finance	80000
	10	76766	Crick	Biology	72000
	11	83821	Brandt	Comp. Sci.	92000
	12	98345	Kim	Elec. Eng.	80000

3. Assuming, we have instructor\_backup table available which is backup of instructor\_backup table. Write an SQL query to deletes the records from the instructor table, whose salary is >70000.

```
DELETE from instructor_backup  
WHERE SAL > 70000;
```

<input type="checkbox"/>	<input checked="" type="checkbox"/>	* INST_I	* INST_NAME	D_NAME	SAL
		Filter	Filter	Filter	Filter
<input type="checkbox"/>	1	10101	Srinivasan	Comp. Sci.	65000
<input type="checkbox"/>	2	15151	Mozart	Music	40000
<input type="checkbox"/>	3	32343	El Said	History	60000
<input type="checkbox"/>	4	58583	Califieri	History	62000

4. Write a query to print average salary of all teachers as average. You need write this using query in select clause.

```
SELECT AVG(SAL) as average  
FROM INSTRUCTOR;
```

<input type="checkbox"/>	<input checked="" type="checkbox"/>	* average
		Filter
<input type="checkbox"/>	1	74833.3333

**5. Create a table TA with same structure as student table. Write a query to show the name of students who aren't TA.**

```
CREATE TABLE TA  
LIKE student;  
INSERT INTO TA  
SELECT *  
FROM student  
where S_ID <> 98988 AND S_ID <> 98765;  
SELECT s_name  
FROM student as s  
where not exists (select *  
from TA WHERE s.S_ID = TA.S_ID );
```

<input checked="" type="checkbox"/>	<input type="text"/>	* s_name
		Filter
	1	Bourikas
	2	Tanaka

**6. Create a table TA with same structure as student table. Write a query to show the name of students who aren't TA but student.**

```
CREATE TABLE TA
LIKE student;
INSERT INTO TA
SELECT *
FROM student
where S_ID <> 98988 AND S_ID <> 98765;
INSERT INTO TA
values(0001,"Zoro","Music",45);
SELECT s_name
FROM TA
where not exists (select *
from student as s WHERE TA.S_ID = s.S_ID);
```

<input checked="" type="checkbox"/>	<input type="text" value="Q"/>	* s_name
		Filter
	1	Zoro

**7. Create a table TA with same structure as student table. Write a query to show the name of students who are either TA or student.**

```
CREATE TABLE TA
LIKE student;
INSERT INTO TA
SELECT *
FROM student
where S_ID <> 98988 AND S_ID <> 98765;
INSERT INTO TA
values(0001,"Zoro","Music",45);
select s_name from student
UNION
SELECT s_name from TA
```

	Filter
1	Zhang
2	Shankar
3	Brandt
4	Chavez
5	Peltier
6	Levy
7	Williams
8	Sanchez
9	Snow
10	Brown
11	Aoi
12	Bourikas
13	Tanaka
14	Zoro




8. Write a query to show the names of students who are both student and TA.

```
SELECT s_name  
FROM student as s  
where exists (select *  
from TA WHERE s.S_ID = TA.S_ID );
```

<input checked="" type="checkbox"/>	<input type="text"/>	* s_name
		Filter
	1	Zhang
	2	Shankar
	3	Brandt
	4	Chavez
	5	Peltier
	6	Levy
	7	Williams
	8	Sanchez
	9	Snow
	10	Brown
	11	Aoi

**9. Write a query to print name of teachers who take at least one course.**

```
SELECT inst_name  
from INSTRUCTOR as i  
WHERE exists (SELECT *  
FROM teaches as t  
WHERE t.inst_id = i.inst_id)
```

  * inst_name 		
		Filter
	1	Srinivasan
	2	Wu
	3	Mozart
	4	Einstein
	5	El Said
	6	Katz
	7	Crick
	8	Brandt
	9	Kim