Assignment – 4
DBMS(CSP362)

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1.Show the name of all instructor whose salary is > 60000.

SELECT INST_NAME
from INSTRUCTOR
WHERE SAL>60000;

		* INST_NAME ⬍
		Filter
	1	Srinivasan
	2	Wu
	3	Einstein
	4	Gold
	5	Katz
	6	Califieri
	7	Singh
	8	Crick
	9	Brandt
	10	Kim

2.show instructor with max sal from inst table without using max fun(use ALL and subquery).

SELECT INST_NAME
from INSTRUCTOR
WHERE SAL>= ALL (SELECT SAL
FROM INSTRUCTOR);

		* INST_NAM ⬍
		Filter
	1	Einstein

3.Show all the instructor whose sal is less than some instructor sal.

SELECT INST_NAME
from INSTRUCTOR
WHERE SAL< (SELECT SAL
FROM INSTRUCTOR
WHERE INST_NAME='Katz');

		* INST_NAME
		Filter
	1	Srinivasan
	2	Mozart
	3	El Said
	4	Califieri
	5	Crick

4.Show the id of all students whose department name is comp. (use like and %)

SELECT S_ID
FROM student
WHERE D_NAME LIKE "%Comp%";

		* S_ID
		Filter
	1	00128
	2	12345
	3	54321
	4	76543

5.Show course id, section id of all the students (from takes table) who have a grade 5,7,10. (use in)

SELECT c_id,sec_id
FROM takes
WHERE grade IN (5,7,10);

		c_id	sec_id
		Filter	Filter
	1	CS-101	1
	2	CS-101	1
	3	CS-190	2
	4	CS-315	1
	5	CS-347	1
	6	HIS-351	1
	7	CS-319	1
	8	CS-101	1
	9	CS-319	2
	10	EE-181	1
	11	CS-315	1

6.Show course id, section id of all the students (from takes table) whosegrade aren't 10,9,4. (use in with not)

SELECT c_id,sec_id
FROM takes
WHERE grade NOT IN (10,9,4);

		c_id	sec_id
		Filter	Filter
	1	CS-101	1
	2	HIS-351	1
	3	FIN-201	1
	4	PHY-101	1
	5	CS-101	1
	6	CS-101	1
	7	CS-319	1
	8	CS-190	2
	9	EE-181	1
	10	CS-315	1

7.Show the name and id of all the instructors whose salary ins between 50000 and 90000. (use between)

SELECT INST_ID,INST_NAME
FROM INSTRUCTOR
WHERE SAL BETWEEN 50000 AND 90000;

		* INST_I	* INST_NAME
		Filter	Filter
	1	10101	Srinivasan
	2	12121	Wu
	3	32343	El Said
	4	33456	Gold
	5	45565	Katz
	6	58583	Califieri
	7	76543	Singh
	8	76766	Crick
	9	98345	Kim
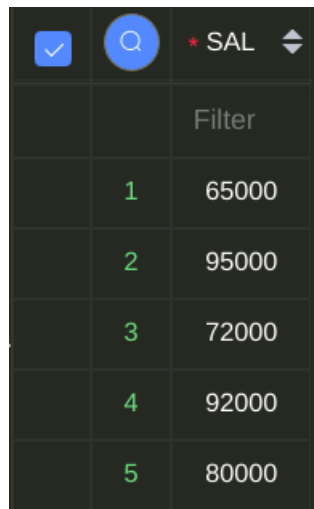
8.Find the department name and building of the department which has the highest budget (using All)

SELECT d_name,building
FROM department
WHERE budget>= ALL (SELECT budget
FROM department);

		* d_nam	building
		Filter	Filter
	1	Finance	Painter

9.Find the salary of the teacher who are taking a course in the year 2009.

SELECT SAL FROM INSTRUCTOR
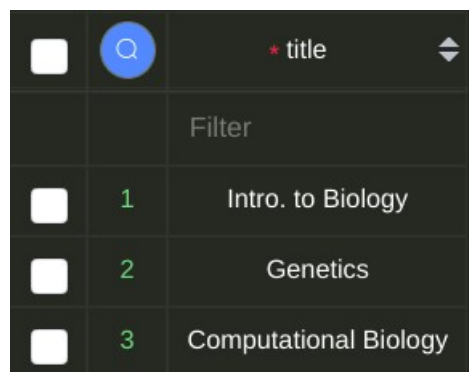WHERE INST_ID IN (SELECT INST_ID
FROM teaches
WHERE year = 2009);

	* SAL
	Filter
1	65000
2	95000
3	72000
4	92000
5	80000

10.Show the title of all courses whose course id starts with BIO.
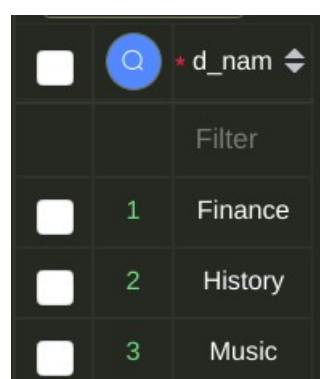
SELECT title
FROM course
WHERE c_id like "BIO%";

	* title
	Filter
1	Intro. to Biology
2	Genetics
3	Computational Biology

11.Name of all the departments whose building name starts with P.

SELECT d_name
FROM department
WHERE building LIKE "P%";

	* d_nam
	Filter
1	Finance
2	History
3	Music