Assignment 6 CMPSCH31W Problem 1: Merojection

Msid, gpa (SENIORS)

51d 900 401 3.9 402 3.7 403 3.5 404 3.3

SQL Statement:

SELECT sid, gpa FROM SENIORS;

Problem 2:

TcreditsSoFar (SENIORS)

credits Sofar 120 130 130 135

Question. Do you have three or four rows? Why?

A: There is four rows because there are four seniors Debbie, Elaine, Frank, and George.

SQL Statement:

SELECT credits 50 Far FROM SENTORS;

Problem 3:

#### JUNIORS U SENIORS

ı				-
	sid	Sname	creditsSoFar	900
	301	Adam	85	24
	302	Betty	90	3.8
	303	Charlie	95	3.9
	401	Debbie	120	3.9
		Elaine	130	3.7
	403	Frank	130	3.5
	404	George	135	3.3
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501 Statement:

SELECT Sid, Sname, credits SoFar, gpa FROM JUNIORS UNION SELECT Sid, Sname, credits SoFar, gpa FROM SENIORS;

Problem 4:

· Ogpa > 3.5 (SENIORS)

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	Sid	Sname	creditsSoFar	apa
	401	Debbie	12.0	3.9
	402	Elaine	130	3.7
ale d	A STATE OF STREET STATE OF STREET STREET, STRE			

SQL Statement

SELECT SId, Sname, credisSoFac, gpa FROM SENTORS WHERE gpa > 3.5;

Problem 5A:

M (JOIN)

# SENTORS MS. Sid = t. Sid TAKEN

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Sid	Sname	creditsSoFac	ana.	cid	grade	-
1	Debbie		3.9	501	8	
	Debbie	120	3.9	506	8-	
	Debbie	120	3.9	502	C+	-
3	George	135	3.3	503	<u>D</u>	-
404	George	135	3.3	504		Description of
A STATE OF THE PARTY OF T	J					6

SOL Statement:

SFIECT 5.5id, sname, credits 50 Far, gpa, cid, grade FROM SENIORS 5, TAKEN & WHERE 5.5id = t.sid;

Problem 5B:

## JUNIORS M S. Sid = t Sid TAKEN

Separate Separate	sid	snome	crediteSoFor	apa	cid	grade
Account of the Party of the Par	302	Betty	90	38	502	A
- 1		Betty	175	1	501	A .
		Charlie	The second secon	3.9	501	6+

### SQL Statement?

SELECTS. sid, sname, credits So Far, gpa, cid, grade FROM JUNIORS s, TAKEN t WHERE S. Sid = t. Sid;

Problem G.

SENIORS M s.sid = t.sid TAKEN UNION JUNIORS M s.sid = t.sid TAKEN

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-	Sid	sname	credits	SoFar	aga	cid	arade
-		Debbie		120	3.9	501	B
-	401	Debbie	e santa a successiva de la compansión de l	120	3.9	506	8-
-	401	Debbie	plante and the second s	120	3.9	502	C+
-		George	Acade and complete constraint	135	3.3	503	p
		George	and was much bear and a property of the contracting a second second	135	3.3	504	F
-	Maria Company	Betty	and the state of t	90	3.9	502	A
Manager and an age	302	Betty		90	3.9	501	A-
Series Chicalog		Charlie.	and the control of th	95	3.8	501	6+

#### 5QL Statement:

SELECT sisid, sname, creditsSofar, gpa, cid,
grade FROM SENIORS s, TAKEN t WHERE
sisid = tisid UNION SELECT sisid, sname,
creditsSofar, gpa, cid, grade FROM JUNIORS &
s, TAKEN t WHERE sisid = tisid;

Problem 7:

Find the names of students who have taken the course with id number of 502

Planame (Ot.cid=502 (SENIORS & M TAKEN t)) U
Planame (Ot.cid=502 (SENIORS & M TAKEN t))
Show the results in tabular form:

Sname Debbie Betty

SQL Statement?

SFLECT Sname FROM SENTORSS, TAKEN & WHERE t. cid=502 UNION SELECT Sname FROM JUNIORS J, TAKEN & WHERE t.cid=502j

Other way:

Problem 8 Find the names of students who hove taken CMPSCH65 Paname (JUNIORS USENIORS) M (Ocname ="465" CLASSES M TAKEN)] Show the results in tabular form. Sname Charlie Debbie Cicorge SQL Statement: SELECT Sname FROM ((SELECT\* FROM JUNIORS UNION SELECT\* FROM SENTORS) NATURAL JOIN (SELECT SID FROM CLASSES NATURAL JOIN TAKEN WHERE cname = "H65")); Problem 9 Find the courses taken by anyone with a GPA greater than or equal to 3.9 Detype, chame [ Jopa = 3.9 (JUNIORS U SENIORS)

M CLASSES M TAKEN]

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Show results in tabular form.

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ctvoc	cname
CMPSC	465
PHY5	211
FNG	202C

SQL Statement:

SELECT ctype, cname FROM ([(SELECT\*
FROM JUNIORS)] U (SELECT\* FROM SENIORS)]
NATURAL JOIN (CLASSES NATURAL JOIN
TAKEN) WHERE gpa >= 3.9;

Problem 10.
Find the name of all students who have taken atleast one class.

Mariame (TAKEN M (SENIORS U JUNIORS)]

Show results in tabular form:

Sname Betty Charlie Debbie George

SQL Statement:

SELECT DISTINCT Sname FROM (SELECT \* FROM JUNIORS UNION SELECT \*

# FROM SENIORS NATURAL JOIN TAKEN

Problem 11. Find the names

Moname (JUNIORS U SENIORS) M (Ochame = "211" U Ochame = "2020" CLASSES M TAKEN)]

Show the results in tabular form:

Sname Betty Debbie

501 Statement:

SELECT sname FROM ((SELECT\* FROM JUNIORS UNION SELECT\* FROM SENIORS) NATURAL JOIN (SELECT sid FROM CLASSES NATURAL JOIN TAKEN WHERE cname="211" OR cname="2020"));

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