

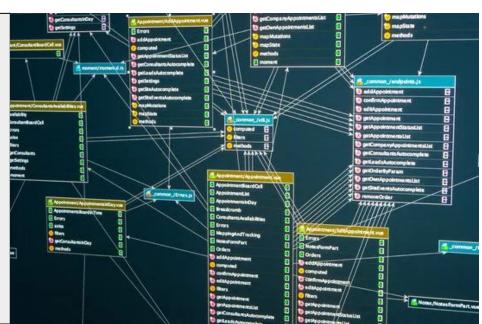
Réponses de TP1 de base de données avancée SQL



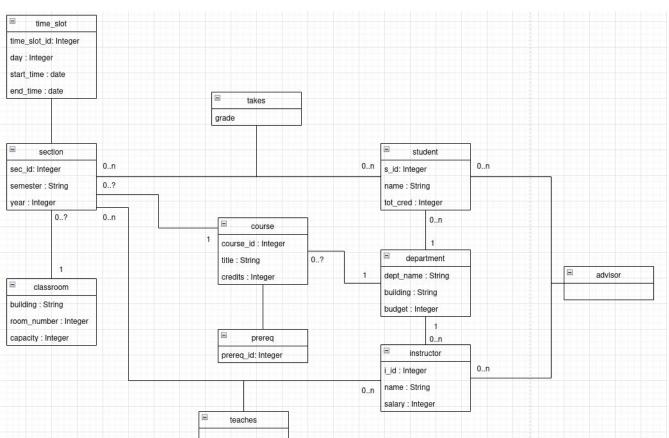
Nom de l'école : Sup Galilée

Rédigé par :

Lucas ZHENG (12215828)

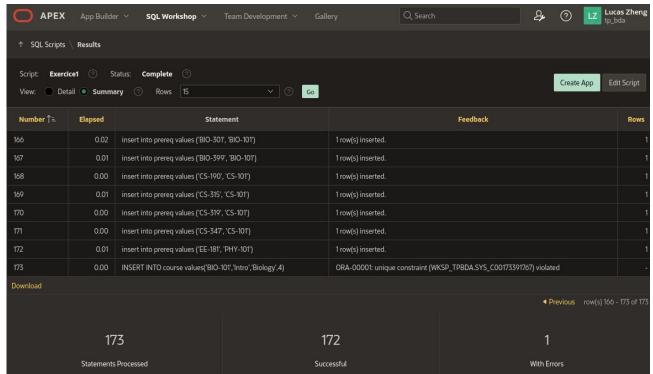


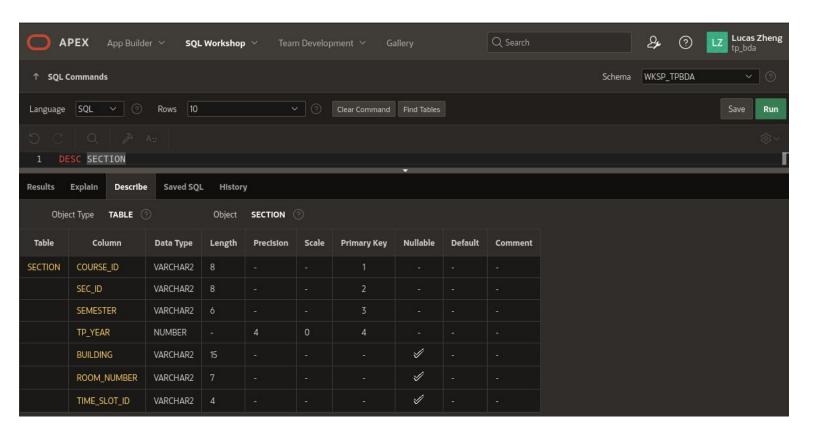
Question 1.2



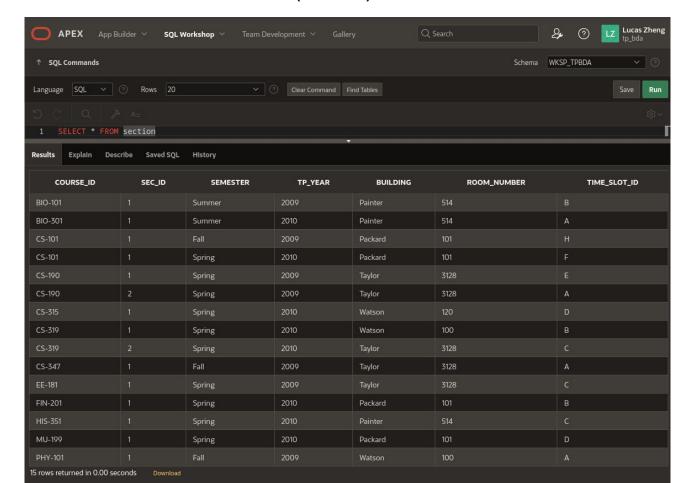
I. TP1

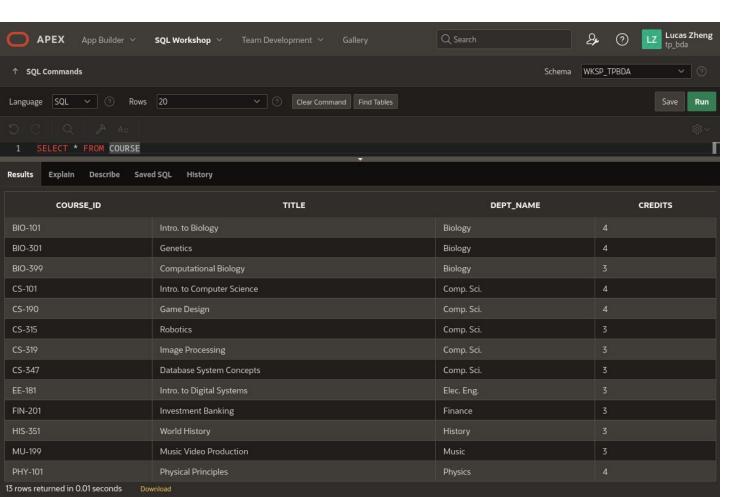
SCRIPT en ajoutant un nouveau cours demandé dans la question 4 Le cours étant déjà présent dans la table, elle viole la contrainte d'unicité

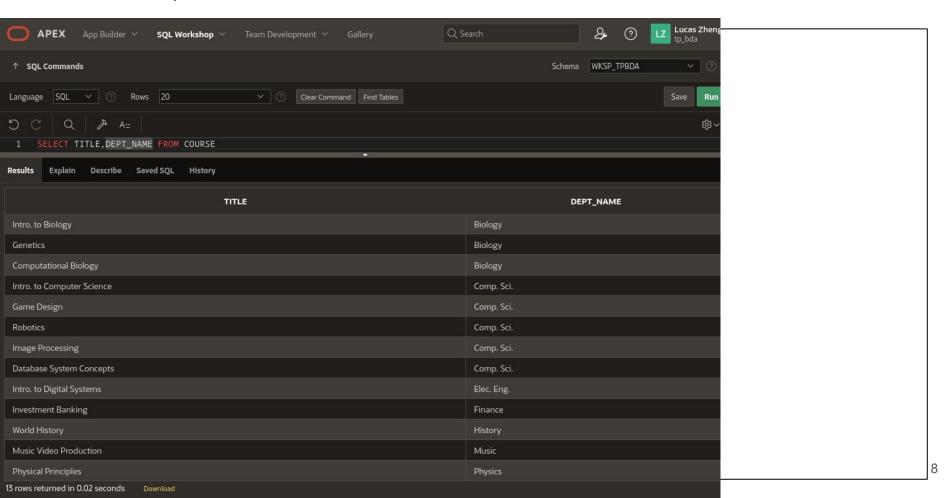


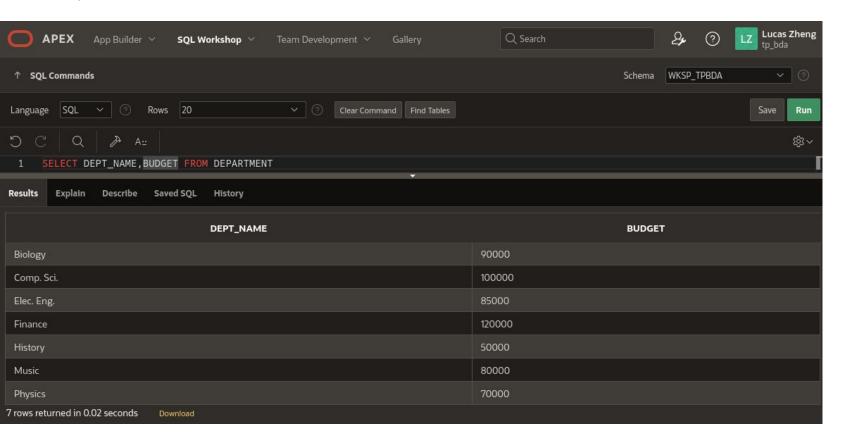


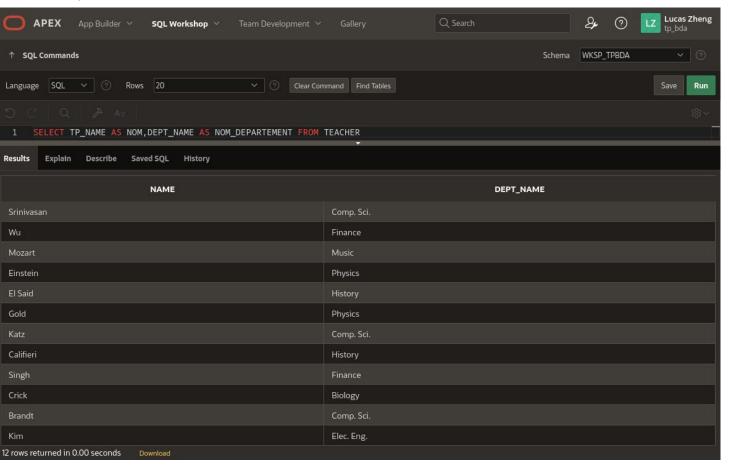
EX2 Question 1 (suite)

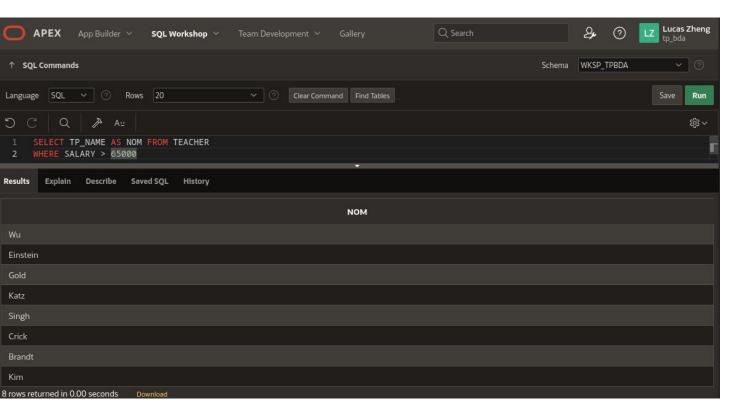


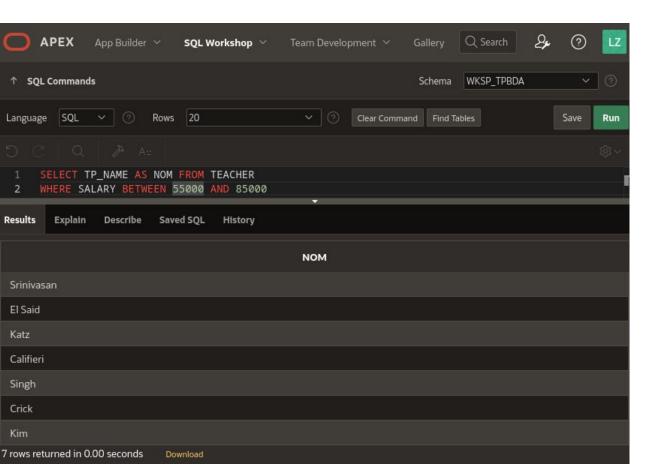


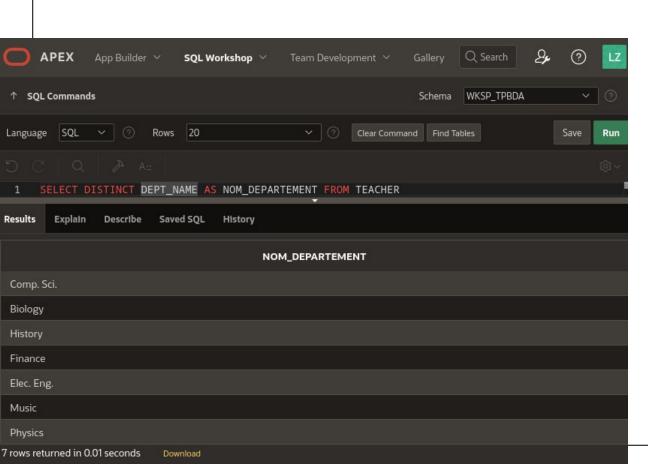




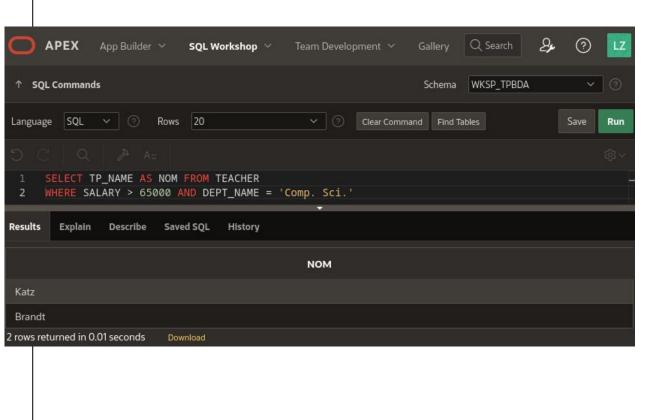


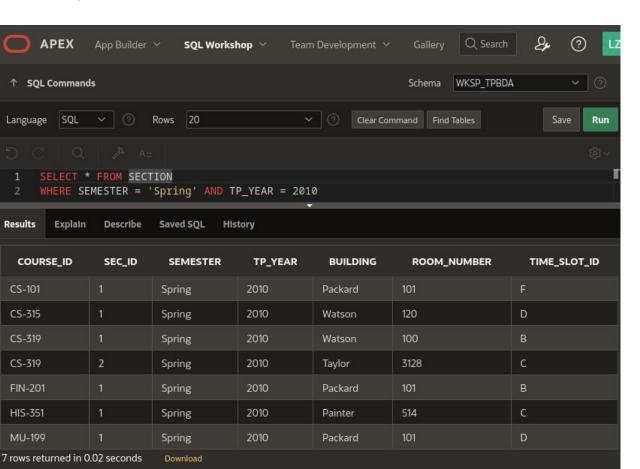


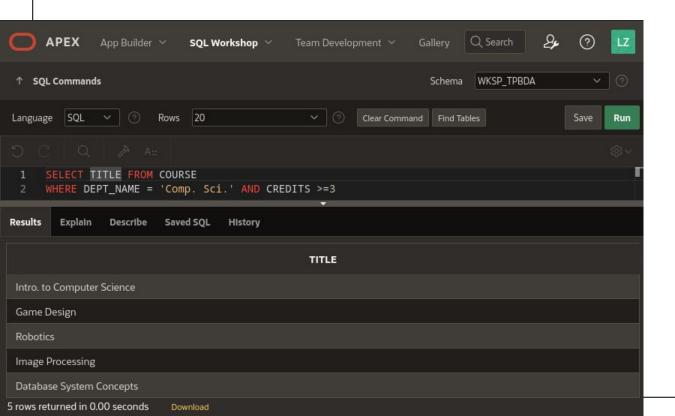


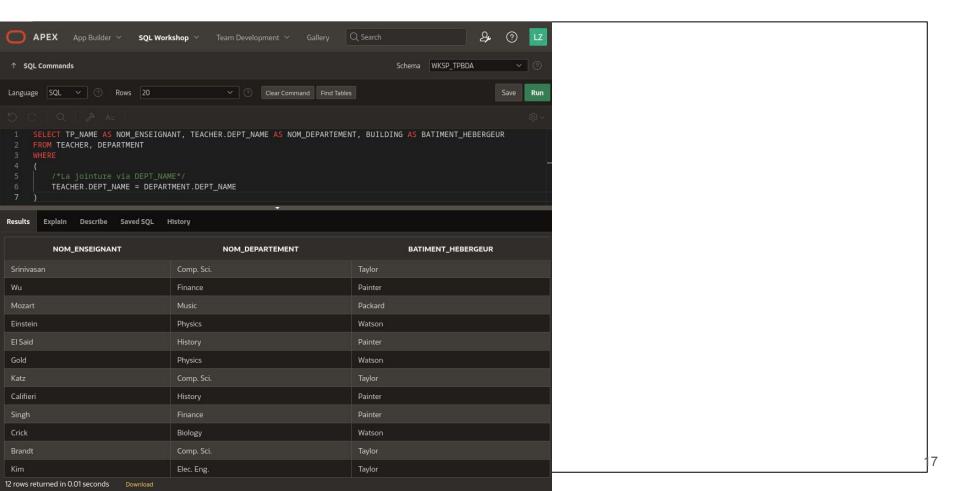


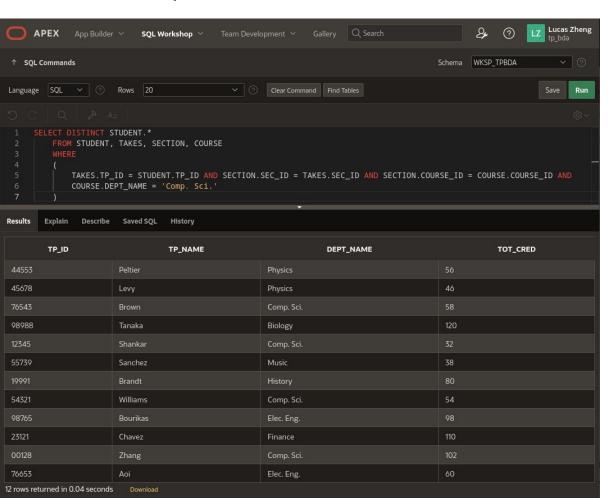
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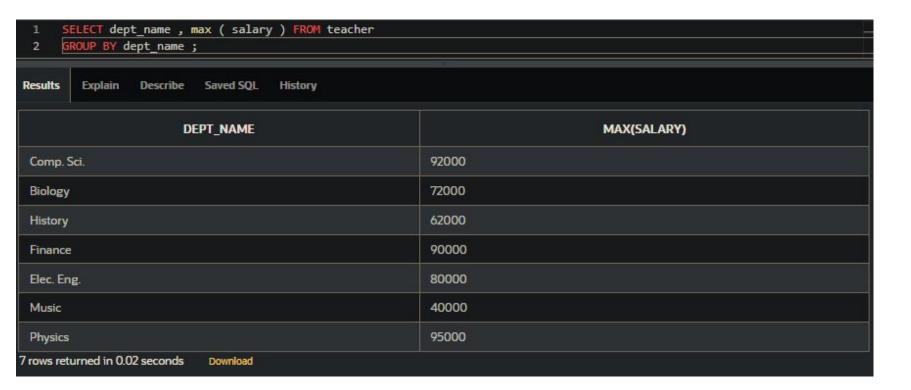




```
1 SELECT DISTINCT STUDENT.TP_NAME
      FROM STUDENT, TAKES, SECTION, TEACHES, TEACHER
          STUDENT.TP_ID = TAKES.TP_ID AND TAKES.SEC_ID = SECTION.SEC_ID AND
          SECTION.SEC_ID = TEACHES.SEC_ID AND TEACHES.TP_ID = TEACHER.TP_ID AND
          TEACHER.TP_NAME = 'Einstein'
Results Explain Describe Saved SQL History
                                                                        TP_NAME
 Brandt
 Sanchez
 Brown
 Aoi
 Zhang
 Bourikas
 Shankar
 Chavez
 Peltier
 Tanaka
 Williams
12 rows returned in 0.04 seconds Download
```

1 SELECT tp_name , course_id 2 FROM teacher , teaches 3 WHERE teacher.tp_id = teaches.tp_id;						
Results Explain Describe Saved SQL History						
TP_NAME	COURSE_ID					
Srinivasan	CS-101					
Srinivasan	CS-315					
Srinivasan	CS-347					
Wu	FIN-201					
Mozart	MU-199					
Einstein	PHY-101					
El Said	HIS-351					
Katz	CS-101					
Katz	CS-319					
Crick	BIO-101					
Crick	BIO-301					
Brandt	CS-190					
Brandt	CS-190					
Brandt	CS-319					
Kim	EE-181					
15 rows returned in 0.03 seconds Download						

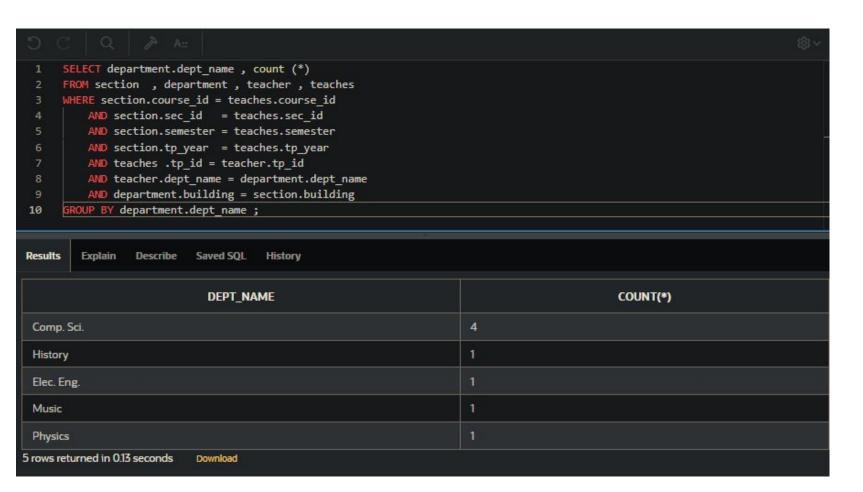
```
SELECT takes.course_id , takes.sec_id , takes.semester , takes.tp_year , count (*)
      FROM takes
      WHERE takes.semester = 'Spring' and takes.tp_year = 2010
       GROUP BY takes.course id , takes.sec id , takes.semester , takes.tp year ;
Results
         Explain
                  Describe
                            Saved SQL
                                        History
       COURSE ID
                               SEC_ID
                                                  SEMESTER
                                                                         TP YEAR
                                                                                               COUNT(*)
 CS-315
                                                                    2010
                                                                                          2
                                            Spring
 CS-101
                                                                    2010
                                            Spring
 CS-319
                          2
                                            Spring
                                                                    2010
 CS-319
                                            Spring
                                                                    2010
 FIN-201
                                                                    2010
                                            Spring
 HIS-351
                                                                    2010
                                            Spring
 MU-199
                                                                    2010
                                            Spring
7 rows returned in 0.06 seconds
                             Download
```



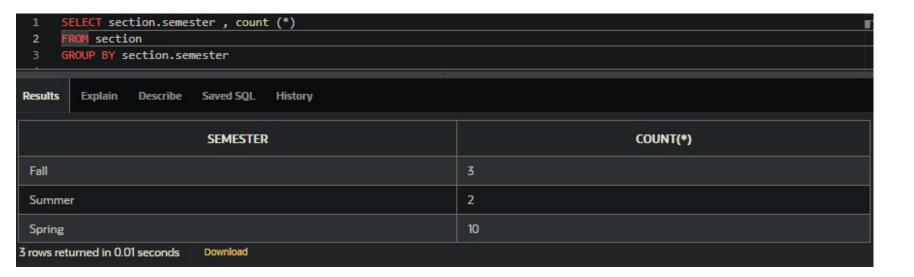
SELECT takes.course_id , takes.sec_id , takes.semester , takes.tp_year , count (*) FROM takes GROUP BY takes . course_id , takes . sec_id , takes . semester , takes .tp_year ; Results						
CS-319	1	Spring	2010	1		
CS-347	1	Fall	2009	2		
MU-199	1	Spring	2010	1		
CS-101	1	Fall	2009	6		
CS-101	1	Spring	2010	1		
FIN-201	1	Spring	2010	1		
BIO-101	1	Summer	2009	1		
CS-315		Spring	2010	2		
HIS-351	1	Spring	2010	ĭ		
PHY-101		Fall	2009			
EE-181	1	Spring	2009	1		
BIO-301	1	Summer	2010	î		
CS-319	2	Spring	2010	1		
4 rows returned in 0.01 seconds Download						

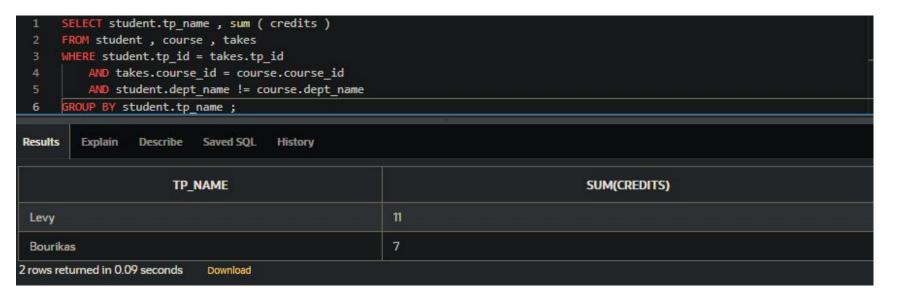
```
SELECT takes.course id , takes.sec id , takes.semester , takes.tp year , count (*)
      FROM takes
      GROUP BY takes.course id , takes.sec id , takes.semester , takes.tp year ;
        Explain Describe Saved SQL History
      COURSE_ID
                           SEC_ID
                                                                  TP_YEAR
                                            SEMESTER
                                                                                     COUNT(*)
 CS-190
                                        Spring
                                                              2009
 CS-319
                                        Spring
                                                              2010
 CS-347
                                        Fall
                                                              2009
 MU-199
                                        Spring
                                                             2010
 CS-101
                                        Fall
                                                              2009
 CS-101
                                        Spring
                                                              2010
 FIN-201
                                        Spring
                                                              2010
 BIO-101
                                        Summer
                                                             2009
                                                              2010
 CS-315
                                        Spring
 HIS-351
                                        Spring
                                                             2010
 PHY-101
                                        Fall
                                                              2009
 EE-181
                                        Spring
                                                              2009
 BIO-301
                                        Summer
                                                              2010
 CS-319
                                        Spring
                                                             2010
14 rows returned in 0.03 seconds
                             Download
```

```
SELECT building , count (*)
       FROM section
       WHERE ( semester , tp_year ) IN ( ( 'Fall' , 2009) , ( 'Spring' , 2010) ) GROUP BY building ;
  3
Results
          Explain
                   Describe
                             Saved SQL
                                         History
                       BUILDING
                                                                              COUNT(*)
  Watson
                                                        3
 Packard
                                                        4
 Taylor
 Painter
4 rows returned in 0.03 seconds
                              Download
```



1 SELECT course.title , teacher.tp name					
2 FROM section , teacher , teaches , course					
3 WHERE section.course_id = teaches.course_id					
4 AND section.sec_id = teaches.sec_id 5 AND section.semester = teaches.semester					
6 AND section.tp year = teaches.tp year					
AND section.tp_year = teaches.tp_year AND teaches.tp id = teacher.tp id					
8 AND section.course_id = course.course_id					
9 ORDER BY course.title ;					
Results Explain Describe Saved SQL History					
TITLE	TP_NAME				
Database System Concepts	Srinivasan				
Game Design	Brandt				
Game Design	Brandt				
Genetics	Crick				
Image Processing	Katz				
Image Processing	Brandt				
Intro. to Biology	Crick				
Intro. to Computer Science	Srinivasan				
Intro. to Computer Science	Katz				
Intro. to Digital Systems	Kim				
Investment Banking	Wu				
Music Video Production	Mozart				
Physical Principles	Einstein				
Robotics	Srinivasan				
World History	El Said				
15 rows returned in 0.06 seconds Download					





```
SELECT section.building , sum( course.credits )
      FROM section, course
      WHERE section.course id = course.course id
      GROUP BY section.building;
Results
         Explain
                   Describe
                             Saved SQL
                                         History
          BUILDING
                                                 SUM(COURSE.CREDITS)
 Watson
                               10
 Packard
                               14
                               17
 Taylor
                               11
 Painter
4 rows returned in 0.04 seconds
                              Download
```

FIN