Databases and Information Systems Lab Assignment 4

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$\mathbf{Q}\mathbf{1}$

```
mysql> create user 'universityDB0020'@'localhost' identified by 'Root@lab4';
Query OK, 0 rows affected (0.07 sec)
mysql>
```

$\mathbf{Q2}$

mysql> create database university; Query OK, 1 row affected (0.02 sec) Q3

```
mysql> use university;
Database changed
mysql>
```

```
mysql> source /home/karthik/DBIS Lab/Assignment 4/DDL.sql
Query OK, 0 rows affected (0.10 sec)

Query OK, 0 rows affected (0.07 sec)

Query OK, 0 rows affected (0.06 sec)

Query OK, 0 rows affected (0.05 sec)

Query OK, 0 rows affected (0.08 sec)

Query OK, 0 rows affected (0.07 sec)

Query OK, 0 rows affected (0.05 sec)

Query OK, 0 rows affected (0.06 sec)

Query OK, 0 rows affected (0.06 sec)

Query OK, 0 rows affected (0.04 sec)

Query OK, 0 rows affected (0.04 sec)

Query OK, 0 rows affected (0.06 sec)
```

$\mathbf{Q5}$

```
mysql> source /home/karthik/DBIS Lab/Assignment 4/InsertValues.sql Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.01 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

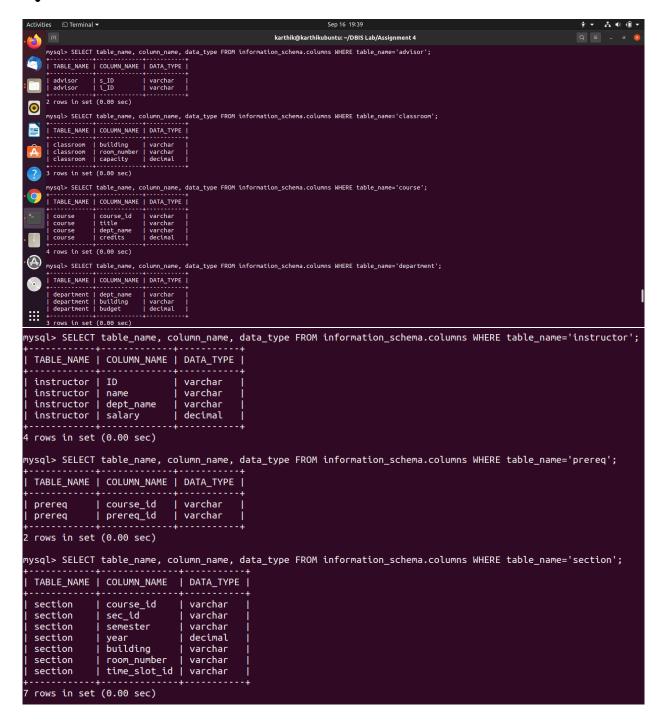
Query OK, 0 rows affected (0.01 sec)

Query OK, 0 rows affected (0.01 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.00 sec)
```

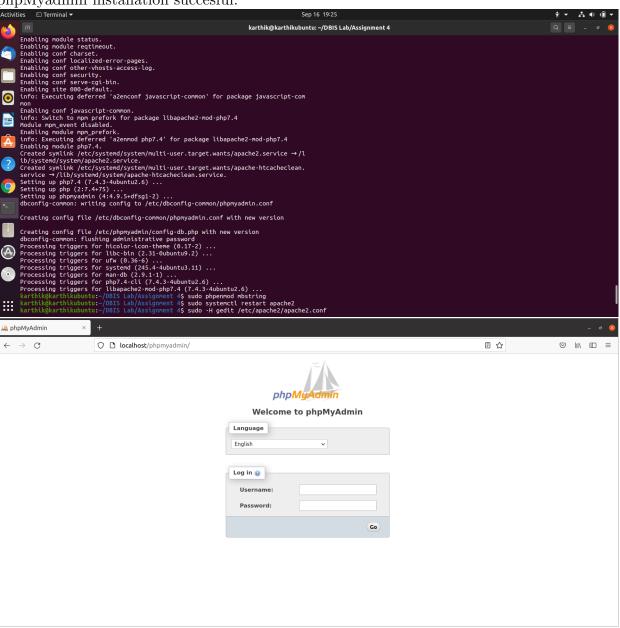
Q6



```
mysql> SELECT table_name, column_name, data_type FROM information_schema.columns WHERE table_name='student';
 TABLE_NAME | COLUMN_NAME | DATA_TYPE |
 student
             | ID
                             varchar
 student
                             varchar
               name
  student
               dept_name
                             varchar
 student
               tot_cred
                             decimal
4 rows in set (0.01 sec)
mysql> SELECT table_name, column_name, data_type FROM information_schema.columns WHERE table_name='takes';
 TABLE_NAME | COLUMN_NAME | DATA_TYPE |
 takes
              I ID
                            | varchar
               course_id
  takes
                             varchar
               sec_id
  takes
                             varchar
  takes
               semester
                             varchar
  takes
                             decimal
               year
  takes
               grade
                            | varchar
6 rows in set (0.00 sec)
mysql> SELECT table_name, column_name, data_type FROM information_schema.columns WHERE table_name='teaches';
TABLE_NAME | COLUMN_NAME | DATA_TYPE |
 teaches
              ID
                             varchar
  teaches
               course_id
                             varchar
  teaches
               sec_id
                             varchar
  teaches
               semester
                             varchar
  teaches
               year
                            | decimal
5 rows in set (0.00 sec)
mysql> SELECT table_name, column_name, data_type FROM information_schema.columns WHERE table_name='time_slot';
 TABLE_NAME | COLUMN_NAME | DATA_TYPE |
 time_slot
             | time_slot_id | varchar
  time_slot
time_slot
              day
                              varchar
              start_hr
                              decimal
  time_slot
               start_min
                              decimal
  time_slot
               end_hr
                              decimal
  time_slot
              end_min
                              decimal
6 rows in set (0.00 sec)
```

$\mathbf{Q7}$

phpMyadmin installation succesful.



1)

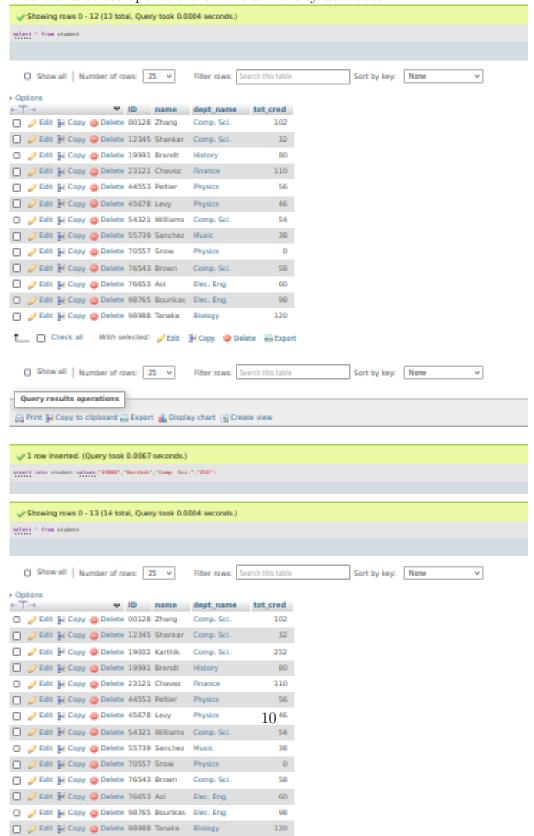
```
karthik@karthikubuntu:~/DBIS Lab/Assignment 4$ mysql -u universityDB0020 -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 18
Server version: 8.0.26-0ubuntu0.20.04.2 (Ubuntu)
Copyright (c) 2000, 2021, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql>
karthik@karthikubuntu:~/DBIS Lab/Assignment 4$ sudo mysgl -u root
[sudo] password for karthik:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 19
Server version: 8.0.26-0ubuntu0.20.04.2 (Ubuntu)
Copyright (c) 2000, 2021, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> grant all privileges on university.* to 'universityDB0020'@'localhost';
Query OK, 0 rows affected (0.01 sec)
mysql>
```

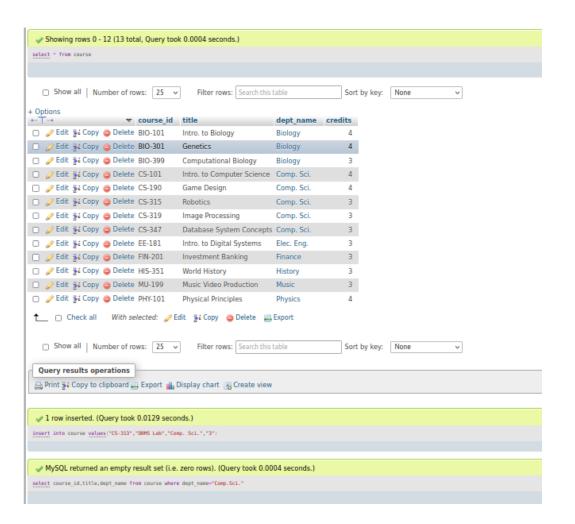
2)

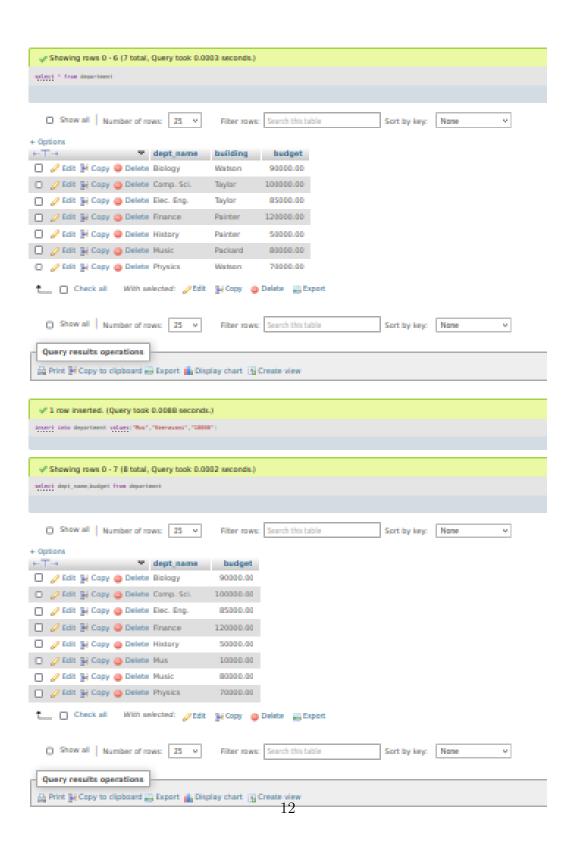
mysql> use university; Reading table information for completion of table and column names You can turn off this feature to get a quicker startup with -A

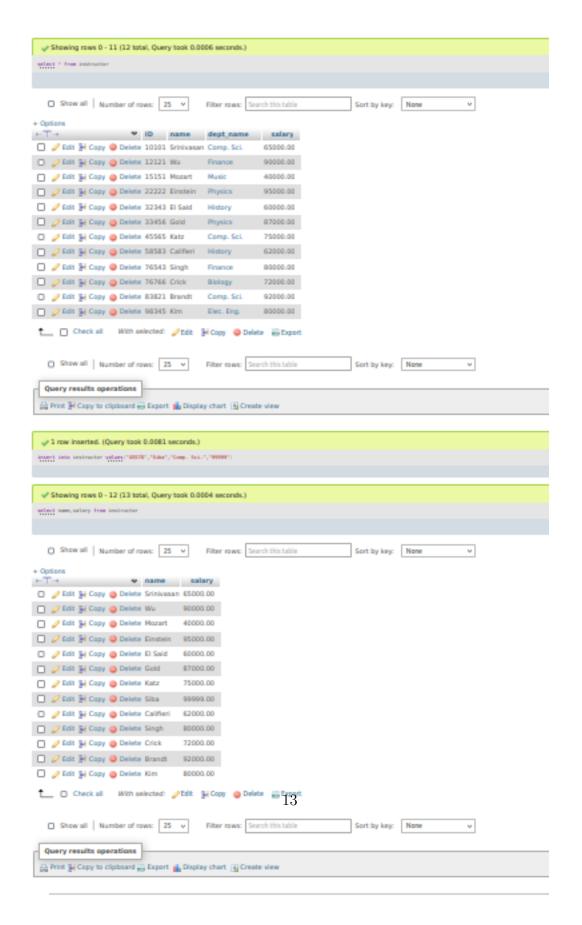
3)

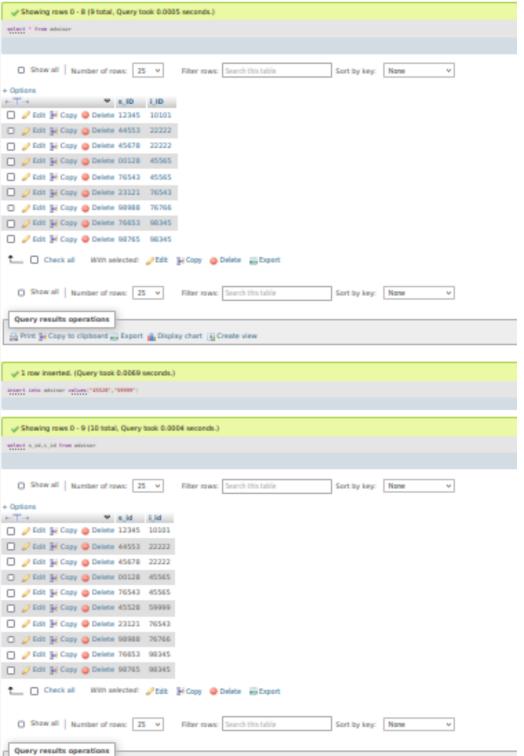
Insert and select operations on the university database.

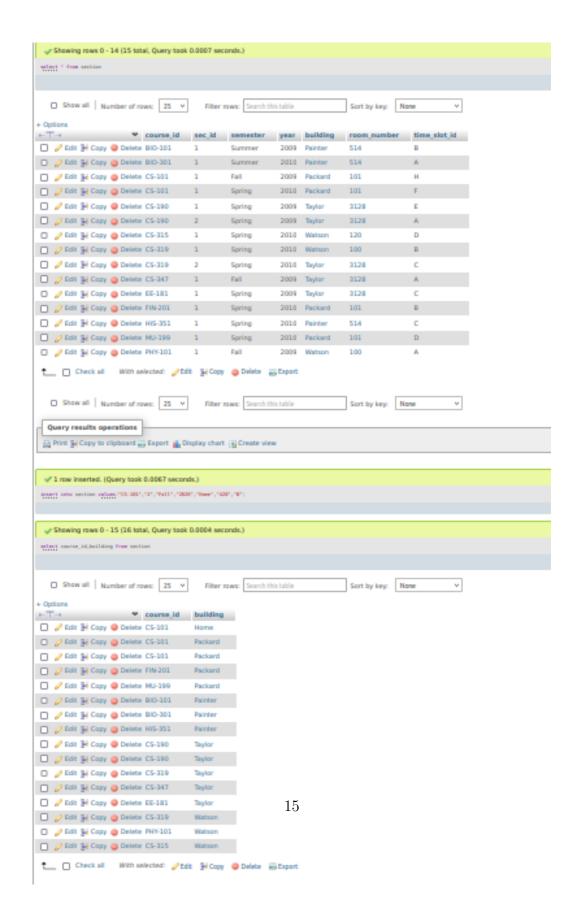


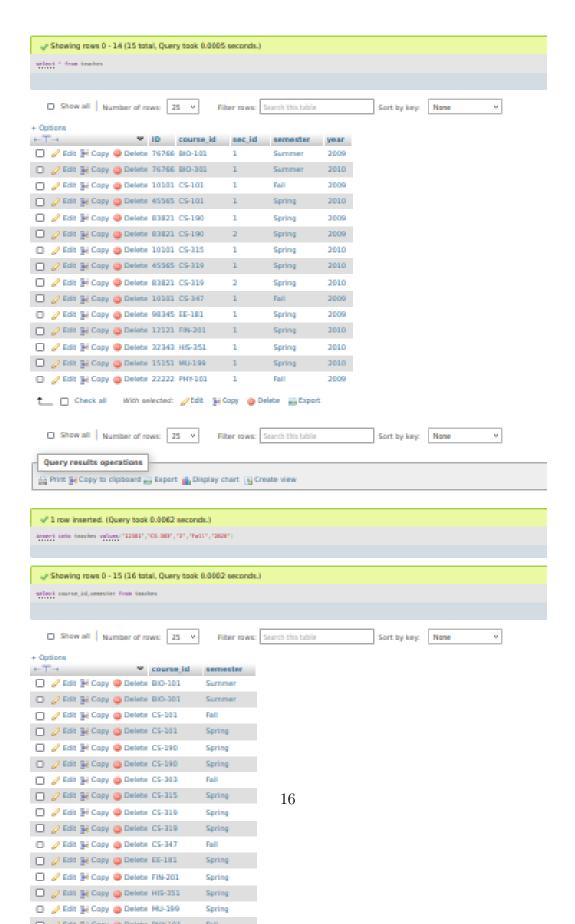


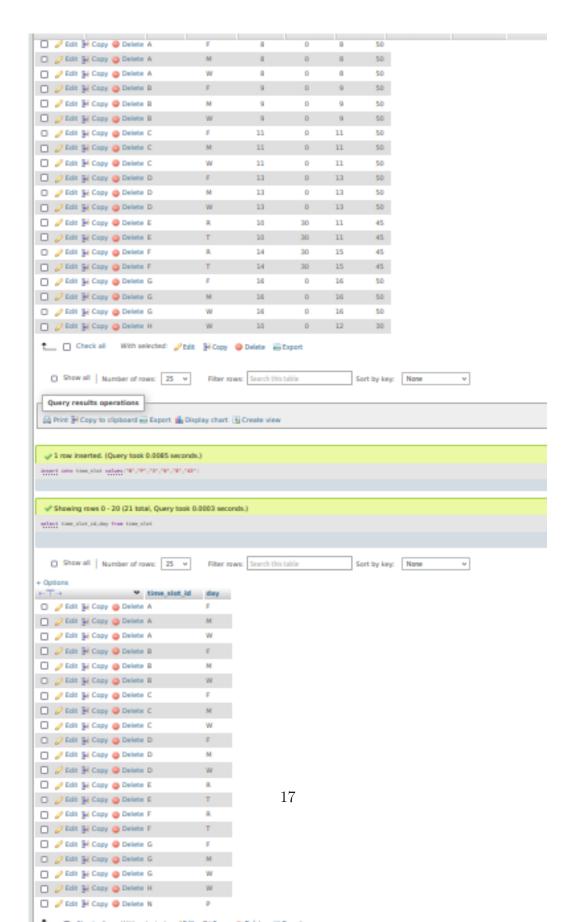


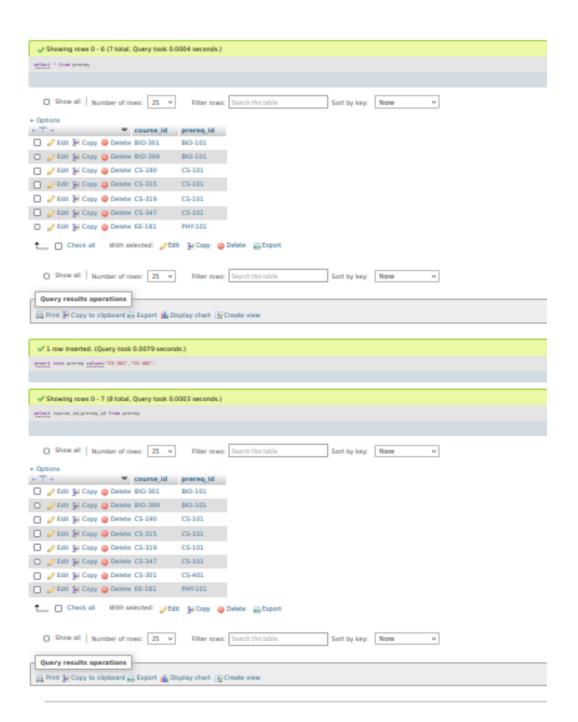


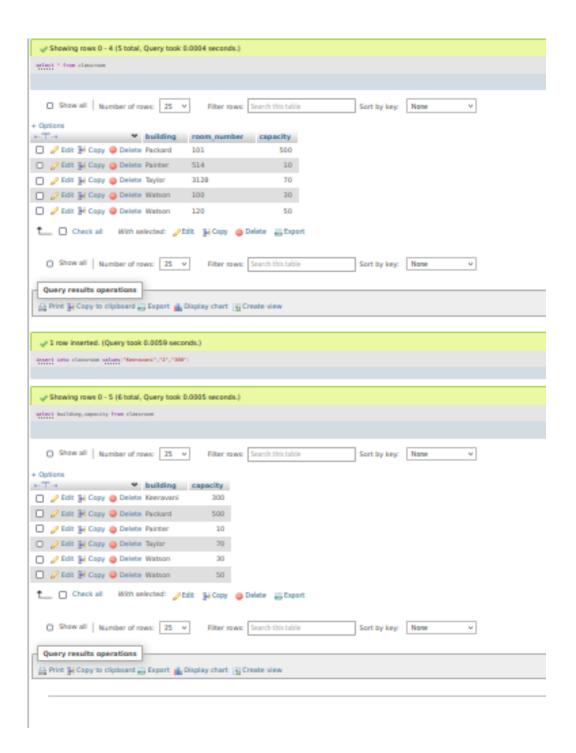


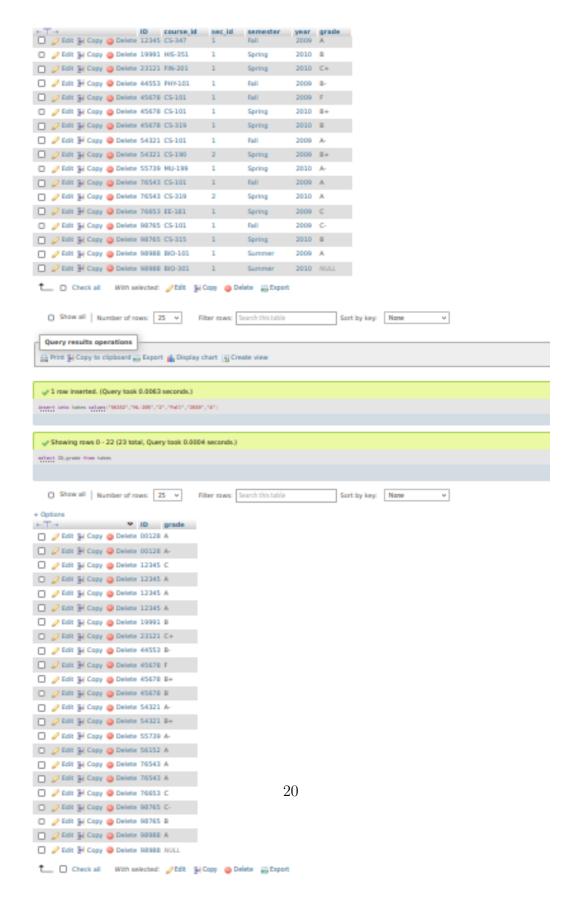












$\mathbf{Q8}$

i)

After inserting courses in civil to the university, i have executed the below query to get the desired result.



ii)



22

iii)

← Ţ	\rightarrow		∇	ID	name	dept_name	salary
	🥜 Edit	≩ € Copy	Delete	10101	Srinivasan	Comp. Sci.	71500.00
	<i> </i>	≩ Copy	Delete	12121	Wu	Finance	99000.00
	<i> ✓</i> Edit	≩ Copy	Delete	15151	Mozart	Music	40000.00
	<i></i> € Edit	≟ Copy	Delete	22222	Einstein	Physics	95000.00
	🥜 Edit	≩ Copy	Delete	32343	El Said	History	60000.00
	<i> ⊘</i> Edit	≟ Copy	Delete	33456	Gold	Physics	87000.00
	<i> </i>	≩ Copy	Delete	45565	Katz	Comp. Sci.	82500.00
	<i> ✓</i> Edit	≩ Copy	Delete	45578	Siba	Comp. Sci.	109998.90
	🥒 Edit	≩ Copy	Delete	58583	Califieri	History	62000.00
	<i> ⊘</i> Edit	≩ Copy	Delete	76543	Singh	Finance	88000.00
	<i> ✓</i> Edit	≩ Copy	Delete	76766	Crick	Biology	72000.00
	<i></i> € Edit	≟ Copy	Delete	83821	Brandt	Comp. Sci.	101200.00
	<i></i> € Edit	3 € Сору	Delete	98345	Kim	Elec. Eng.	80000.00

iv)

As discussed in the class, instead of 2007 we consider 2009 and instead of 15 we consider 5 and proceed:

