

OUTPUTS

Ex1.

Enter name of the table

department

Enter value of k

7

dept_name	building	budget
Civil Eng.	Chandler	255041.46
Biology	Candlestick	647610.55
History	Taylor	699140.86
Physics	Wrigley	942162.76
Marketing	Lambeau	210627.58
Pol. Sci.	Whitman	573745.09
English	Palmer	611042.66

Enter name of the table

section

Enter value of k

7

course_id	sec_id	semester	year	building	room_number	time_slot_id
313	1	Fall	2010	Chandler	804	N
747	1	Spring	2004	Gates	314	K
443	1	Spring	2010	Whitman	434	O
893	1	Fall	2007	Fairchild	145	B
663	1	Spring	2005	Fairchild	145	D
457	1	Spring	2001	Saucon	844	D
445	1	Spring	2001	Alumni	547	J

Enter name of the table

takes

Enter value of k

7

id	course_id	sec_id	semester	year	grade
65901	401	1	Fall	2003	C-
24932	802	1	Spring	2003	B-
61332	200	1	Spring	2007	A-
73492	760	1	Spring	2004	A
65715	843	1	Fall	2010	B+
58300	408	1	Spring	2007	B-
760	571	1	Spring	2004	B

Ex2.

```
Enter course id:
276
title of prerequisite 403 is Immunology
title of prerequisite 345 is Race Car Driving
title of prerequisite 352 is Compiler Design
course_id  prereq_id
276        403
403        345
403        352
```

```
Enter course id:
647
title of prerequisite 792 is Image Processing
title of prerequisite 814 is Compiler Design
course_id  prereq_id
647        792
792        814
```

```
Enter course id:
496
title of prerequisite 489 is Journalism
title of prerequisite 416 is Data Mining
title of prerequisite 443 is Journalism
title of prerequisite 852 is World History
title of prerequisite 133 is Antidisestablishmentarianism in Modern America
title of prerequisite 267 is Hydraulics
title of prerequisite 852 is World History
course_id  prereq_id
496        489
496        416
496        443
443        852
852        133
852        267
133        852
```

Ex3.

(Inserted)

insert into teaches values('80759','105','2','Fall',2002);

Reason:-It got inserted here as he is teaching a course 559 in 'c' slot and we are inserting the values for course id '105' which is being taught in time_slot_id 'J'.

(Not Inserted)

insert into teaches values('74420','443','2','Spring',2002);

Reason:- It is not getting inserted as this Instructor is teaching another section in this year,semester and timeslot.

(Not inserted)

update teaches set course_id ='959' where course_id='376' and sec_id='1'and semester='Fall' and year = 2006;

Reason:- Here we are trying to update the course_id to 956 for (956,1,Fall,2006), which is not possible as the that instructor is teaching another course in that time slot.

(Updated)

update section set time_slot_id='L' where course_id='134'and sec_id='1' and semester='Spring' and year =2008;

Reason:-The tuple inserts because the time_slot_id of old row is emptied because the course_id is changed for that instructor.

(Not updated)

update section set time_slot_id='M' where course_id='376' and year=2006 and semester='Fall';

Reason:-This will not be updated as this instructor was already teaching another course in that time slot.

Ex4.

```
Query ran successfully
Cgpa of student with roll no. 90567 is 5.84127
PS C:\Users\arisa\My project\src> java -cp .\postgresql-42.5.1.jar main4.java
Connection established successfully
Enter roll number of the student
4582
Query ran successfully
Cgpa of student with roll no. 4582 is 5.361111
PS C:\Users\arisa\My project\src> java -cp .\postgresql-42.5.1.jar main4.java
Connection established successfully
Enter roll number of the student
81258
Query ran successfully
Cgpa of student with roll no. 81258 is 6.4761906
PS C:\Users\arisa\My project\src> java -cp .\postgresql-42.5.1.jar main4.java
Connection established successfully
Enter roll number of the student
76672
Query ran successfully
Cgpa of student with roll no. 76672 is 5.081081
```

Ex5.

a)

```
Connection established successfully
Enter the value of k:
5
19362  Linden  Finance  123  8.268292
81207  Masri    Athletics 123  8.2
78637  Beeu     Physics   42   8.171429
98619  Nagaraj  Civil Eng. 61   8.033334
18286  Pang     Finance   110  8
```

b)

```
Enter the value of k:
5
Enter the name of department
Psychology
17676  Michel  Psychology  43  7.5641026
40116  Joshi    Psychology  23  7.5
32886  Damas    Psychology  58  7.428571
26494  Heers     Psychology  28  7.368421
51093  Syng      Psychology  92  7.15
```

```
Enter the name of department
Elec. Eng.
29140  Reuver    Elec. Eng.  123  7.7647057
64401  Larion    Elec. Eng.  42  7.627907
52057  Garg      Elec. Eng.  101  7.490909
59517  Harrison   Elec. Eng.  81  7.382353
38712  Kreutz    Elec. Eng.  29  6.8644066
```

```
Enter the value of k:
5
Enter the name of department
Civil Eng.
98619  Nagaraj   Civil Eng.  61  8.033334
13753  Hoshi     Civil Eng.  68  7.7352943
40677  Ponnambalam Civil Eng.  127  7.707317
99660  OMalley   Civil Eng.  128  7.6415095
32419  Sahani    Civil Eng.  48  7.4615383
```

c)

```
Enter the value of k:
5
Enter the id of course:
237
Beeu  8.171429
Komori  7.943396
Rioul  7.9411764
Yap  7.911111
Morales  7.894737
```

Enter the value of k:

5

Enter the id of course:

349

Åström 7.6585364

Joshi 7.5

Liao 7.4883723

Aydin 7.428571

Miao 7.4

Enter the value of k:

5

Enter the id of course:

735

Pang 8

Yap 7.911111

Arena 7.8421054

Betho 7.8235292

Dellwo 7.5588236