s1. Create two files one is for item and second for category, join both files and store them in new file. Join both file on the basis of catid.

amrapali@ubuntu:~$ cat > item.txt

10 70 salt

20 40 sugar

30 50 tea

40 90 toothbrush

50 25 paste

^C

amrapali@ubuntu:~$ cat category.txt

10 food

20 vagetables

30 hame appliances

40 grocery

50 furniture

^C

amrapali@ubuntu:~$ join -1 1 -2 1 item.txt category.txt

10 70 salt food

20 40 sugar vagetables

30 50 tea hame appliances

40 90 toothbrush grocery

50 25 paste furniture

amrapali@ubuntu:~$ join -1 1 -2 1 item.txt category.txt > newfile.txt

10 70 salt food

20 40 sugar vagetables

30 50 tea hame appliances

40 90 toothbrush grocery

50 25 paste 99 furniture

amrapali@ubuntu:~$ cat newfile.txt

10 70 salt food

20 40 sugar vagetables

30 50 tea hame appliances

40 90 toothbrush grocery

50 25 paste furniture

==========================================================================

2. Count all the record from new generated file. Total words in file.

amrapali@ubuntu:~$ cat newfile.txt

10 70 salt food

20 40 sugar vagetables

30 50 tea hame appliances

40 90 toothbrush grocery

50 25 paste furniture

amrapali@ubuntu:~$ wc -w newfile.txt

26 newfile.txt

amrapali@ubuntu:~$ wc newfile.txt

5 26 127 newfile.txt

==========================================================================

3. Write down command to print all price from the file created above

amrapali@ubuntu:~$ awk '{print $2}' newfile.txt

70

40

50

90

25

============================================================================

4. Write down command to print all price in sorted order

amrapali@ubuntu:~$ awk '{print $2}' newfile.txt | sort

25

40

50

70

90

============================================================================

5. Print out middle price from the list of price

amrapali@ubuntu:~$ cat newfile.txt

10 70 salt food

20 40 sugar vagetables

30 50 tea hame appliances

40 90 toothbrush grocery

50 25 paste furniture

amrapali@ubuntu:~$ awk '{print $2}' newfile.txt | sort | awk 'NR==3 {print NR, $2}' newfile.txt

3 50

===========================================================================

6. Print out maximum price and minimum price from the list of file.

10 70 salt food

20 40 sugar vagetables

30 50 tea hame appliances

40 90 toothbrush grocery

50 25 paste furniture

amrapali@ubuntu:~$ awk '{print $2}' newfile.txt | sort | tail -n 1

90

amrapali@ubuntu:~$ awk '{print $2}' newfile.txt | sort | head -n 1

25

============================================================================

7. Search item name and print the line on the terminal

amrapali@ubuntu:~$ awk '{print NR $3}' newfile.txt

1salt

2sugar

3tea

4toothbrush

5paste

============================================================================

8. Search item name and print those line which did not matched with the name.

amrapali@ubuntu:~$ cat item.txt

10 70 salt

20 40 sugar

30 50 tea

40 90 toothbrush

50 25 paste

60 66 soap

amrapali@ubuntu:~$ cat category.txt

10 food

20 vagetables

30 hame appliances

40 grocery

50 furniture

amrapali@ubuntu:~$ grep -v "soap" item.txt category.txt

item.txt:10 70 salt

item.txt:20 40 sugar

item.txt:30 50 tea

item.txt:40 90 toothbrush

item.txt:50 25 paste

category.txt:10 food

category.txt:20 vagetables

category.txt:30 hame appliances

category.txt:40 grocery

category.txt:50 furniture

================================================================================

9. Use command to print the duplicate the lines for a item

amrapali@ubuntu:~$ sed '3 s/tea/cup/p' newfile.txt

10 70 salt food

20 40 sugar vagetables

30 50 cup hame appliances

30 50 cup hame appliances

40 90 toothbrush grocery

50 25 paste furniture

==================================================================================

10. Create file marks and students. Join them and print the following result

amrapali@ubuntu:~$ cat > student.txt

1 A Amrapali Pune

2 A Rupali Nasik

3 P Shraddha Mumbai

4 P Ketaki Thane

^C

amrapali@ubuntu:~$ cat > marks.txt

1 66

2 77

3 55

4 99

^C

amrapali@ubuntu:~$ join -1 1 -2 1 student.txt marks.txt

1 A Amrapali Pune 66

2 A Rupali Nasik 77

3 P Shraddha Mumbai 55

4 P Ketaki Thane 99

======================================================================================

11. How many student attempt the exam

amrapali@ubuntu:~$ grep -w "P" stud.txt

3 P Shraddha Mumbai 55

4 P Ketaki Thane 99

=====================================================================================

12. How many absent in the exam.

amrapali@ubuntu:~$ grep -w "A" stud.txt

1 A Amrapali Pune 66

2 A Rupali Nasik 77

======================================================================================

13. Maximum marks obtain by the student, and his name.

amrapali@ubuntu:~$ cat stud.txt | sort -k 5n | tail -1 | awk '{print $3, $5}'

Ketaki 99

=======================================================================================

14. Minimum marks obtain by the student, and his name.

amrapali@ubuntu:~$ cat stud.txt

1 A Amrapali Pune 66

2 A Rupali Nasik 77

3 P Shraddha Mumbai 55

4 P Ketaki Thane 99

amrapali@ubuntu:~$ cat stud.txt | sort -k 5n | head -1 | awk '{print $3, $5}'

Shraddha 55

=========================================================================================

15. Print the address and name of student from list

amrapali@ubuntu:~$ awk '{print $3, $4}' stud.txt

Amrapali Pune

Rupali Nasik

Shraddha Mumbai

Ketaki Thane