Assignment-1

DBMS LAB

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Computer Science & Technology

➢ q1.cpp

```cpp
#include <iostream>
#include <fstream>
#include <string>
using namespace std;

int main()
{
    int data[4][6];
    int total[4] = {0};
    int price[8][2];

    for (int i = 1; i <= 8; i++)
    {
        cout << "Enter the price of the product " << i << ": ";
        cin >> price[i - 1][1];
        price[i - 1][0] = i;
    }
    cout << endl;

    for (int i = 0; i < 4; i++)
    {
        for (int j = 0; j < 6; j++)
            data[i][j] = 0;
    }
    ifstream fin("input.txt");

    string line;
    do
    {
        int region;
        int salesman;
        int product_id;
        int quantity;

        fin >> region;
        fin >> salesman;
        fin >> product_id;
        fin >> quantity;

        data[region - 1][salesman - 1] += quantity * price[product_id - 1][1];
        total[region - 1] += quantity * price[product_id - 1][1];
    } while (getline(fin, line));
```

```cpp
    fstream new_file;
    new_file.open("output.txt", ios::out);
    if (!new_file)
        cout << "File creation failed" << endl;
    else
    {
        new_file << "ABC Company" << endl
                 << endl
                 << endl;
        for (int i = 1; i <= 4; i++)
        {
            new_file << "Region " << i << endl;
            for (int j = 1; j <= 6; j++)
            {
                new_file << "Salesman " << j << "             Rs. " << data[i
- 1][j - 1] << "/-" << endl;
            }
            new_file << "Total sale at Region " << i << "  Rs. " << total[i -
1] << "/-" << endl
                     << endl
                     << endl;
        }
    }
    return 0;
}
```

➢ <u>**input.txt**</u>

1 5 1   2

1 5 2 10

1 5 3   5

1 5 4   1

1 6 1 10

1 6 2 30

1	6	3	5
1	6	4	1
2	1	1	10
2	1	2	10
2	1	3	7
2	1	4	1
2	2	1	30
1	1	1	30
1	1	2	10
1	1	3	5
1	1	4	1
1	2	1	10
1	2	2	10
1	2	3	5
1	2	4	1
1	3	1	30
1	3	2	10

1	3	3	5
1	3	4	2
1	4	1	30
1	4	2	10
1	4	3	10
1	4	4	1
2	2	2	10
2	2	3	5
2	2	4	1
2	3	1	15
2	3	2	10
2	3	3	5
2	3	4	2
2	4	1	30
2	4	2	5
2	4	3	10
2	4	4	1

2	5	1	4
2	5	2	10
2	5	3	5
2	5	4	1
2	6	1	10
2	6	2	5
2	6	3	5
2	6	4	1
3	1	1	10
3	1	2	30
3	1	3	7
3	1	4	3
3	2	1	30
3	2	2	15
3	2	3	5
3	2	4	6
3	3	1	7

```
3   3   2   10
3   3   3   5
3   3   4   3
3   4   1   30
3   4   2   5
3   4   3   10
3   4   4   2
3   5   1   4
3   5   2   10
3   5   3   5
3   5   4   6
3   6   1   10
3   6   2   5
3   6   3   5
3   6   4   1
4   1   1   10
4   1   2   30
```

```
4   1   3   7
4   1   4   3
4   2   1   30
4   2   2   15
4   2   3   5
4   2   4   6
4   3   1   13
4   3   2   10
4   3   3   5
4   3   4   3
4   4   1   10
4   4   2   5
4   4   3   10
4   4   4   5
4   5   1   4
4   5   2   10
4   5   3   5
```

```
4   5   4   8
4   6   1   10
4   6   2   5
4   6   3   5
4   6   4   1
```

> **output.txt**

ABC Company

Region 1

Salesman 1	Rs. 76/-
Salesman 2	Rs. 56/-
Salesman 3	Rs. 82/-
Salesman 4	Rs. 96/-
Salesman 5	Rs. 48/-
Salesman 6	Rs. 96/-

Total sale at Region 1 Rs. 454/-

Region 2

Salesman 1	Rs. 64/-
Salesman 2	Rs. 76/-
Salesman 3	Rs. 67/-
Salesman 4	Rs. 86/-
Salesman 5	Rs. 50/-
Salesman 6	Rs. 46/-

Total sale at Region 2 Rs. 389/-

Region 3

Salesman 1	Rs. 116/-
Salesman 2	Rs. 116/-
Salesman 3	Rs. 65/-

Salesman 4   Rs. 92/-

Salesman 5   Rs. 80/-

Salesman 6   Rs. 46/-

Total sale at Region 3 Rs. 515/-

Region 4

Salesman 1   Rs. 116/-

Salesman 2   Rs. 116/-

Salesman 3   Rs. 71/-

Salesman 4   Rs. 90/-

Salesman 5   Rs. 92/-

Salesman 6   Rs. 46/-

Total sale at Region 4 Rs. 531/-