Create the following Collections:

Customer\_Master

Branch\_Master

Account\_Master

**Insert documents as mentioned below:**

**Customer\_Master**

1.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Customer\_Id | Customer\_Name | Customer\_Address | Customer\_Type | Customer\_Age |
| C101 | John | NY | Cash | 29 |

2.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Customer\_Id | Customer\_Name | Customer\_Address | Customer\_Purchase\_Amount | Customer\_Age |
| C102 | Jeremy | NJ | 5000 | 31 |

3.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Customer\_Id | Customer\_Name | Customer\_Address | Customer\_Purchase\_Amount | Customer\_Age |
| C103 | Mac | Pune | 3000 | 25 |

4.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Customer\_Id | Customer\_Name | Customer\_Purchase\_Amount | Customer\_Rating | Customer\_Age |
| C104 | Pattick | 1000 | A | 21 |

5.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Customer\_Id | Customer\_Name | Customer\_Address | Customer\_Type | Customer\_Age |
| C105 | Jelina | NJ | Cash | 19 |

**Branch\_Master**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Branch\_No | Branch\_Name | Total\_Assest | Branch\_Address | Count\_staff |
| B11 | BHManinagar | 15000 | Ahmedabad1 | 21 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Branch\_No | Branch\_Name | Total\_Debt | Branch\_Address | Count\_Customers |
| B12 | BHPaldi | 17000 | Ahmedabad2 | 5750 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Branch\_No | Branch\_Name | Total\_Assest | Branch\_Address | Count\_staff |
| B13 | BHVasna | 21000 | Ahmedabad3 | 15 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Branch\_No | Branch\_Name | Total\_Debt | Branch\_Address | Count\_Customers |
| B14 | BHSatellite | 25000 | Ahmedabad4 | 2100 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Branch\_No | Branch\_Name | Total\_Pending\_Due | Branch\_Address | Count\_staff |
| B15 | BHCGroad | 45000 | Ahmedabad5 | 10 |

**Account\_Master**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Account\_No | Account\_Type | Amount | Mode\_of\_operation | Description |
| A1100 | Savings | 3500 | Single | Interest\_rate\_high |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Account\_No | Account\_Type | Amount | No\_of\_times\_operated | Employee\_reference |
| A1101 | Recurring | 4500 | 250 | Yes |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Account\_No | Account\_Type | Amount | Mode\_of\_operation | Description |
| A1103 | Savings | 10000 | Joint | Just\_opened |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Account\_No | Account\_Type | Amount | No\_of\_times\_operated | Employee\_reference |
| A1107 | Recurring | 9500 | 110 | Yes |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Account\_No | Account\_Type | Amount | Mode\_of\_operation | Employee\_reference |
| A1109 | Savings | 5500 | Single | No |

**Solve the following queries:**

Create the following Collections:

Employee

**Insert documents as mentioned below:**

**Employee**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Employee\_No | Employee\_Name | Designation | Salary | Empoyee\_Age | Product\_Name |
| E11 | Jeremy | Developer | 40000 | 39 | Banking |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Employee\_No | Employee\_Name | Skill\_Area | Salary | Empoyee\_Age | Product\_Name |
| E12 | Dylan | Coding | 25000 | 45 | Banking |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Employee\_No | Employee\_Name | Designation | Salary | Experience\_years | Outsourcing |
| E13 | Roma | Developer | 27000 | 5 | No |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Employee\_No | Employee\_Name | Skill\_Area | Salary | Experience\_years | Product\_Name |
| E14 | Mac | Coding | 35000 | 15 | Online\_shopping\_portal |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Employee\_No | Employee\_Name | Skill\_Area | Salary | Empoyee\_Age | Outsourcing |
| E15 | Mita | Analysis | 45000 | 28 | Yes |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Employee\_No | Employee\_Name | Designation | Salary | Experience\_years | Outsourcing |
| E16 | Nita | QA | 20000 | 7 | No |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Employee\_No | Employee\_Name | Skill\_Area | Salary | Experience\_years | Product\_Name |
| E17 | Priya | Testing | 55000 | 10 | Online\_shopping\_portal |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Employee\_No | Employee\_Name | Designation | Salary | Empoyee\_Age | Outsourcing |
| E18 | Priyanka | Analyst | 58000 | 43 | Yes |

**Solve the following queries:**

1. **Compute the average salary of employee on the basis of their skill area.**
2. **Find the maximum amount from account collection for each account type.**
3. **Find the minimum of purchase amount from customer collection according to their address i.e. address wise.**
4. **Find the total amount from account collection according to mode of operation. i.e. total amount should be displayed for ‘single mode’ and total amount needs to be displayed for ‘joint mode’.**
5. **Find the total of salary field of an employee.**
6. **Find the average salary of an employee.**
7. **Find the minimum and maximum amount of account collection. (two separate queries have to be formed.)**
8. **Find the minimum and maximum amount of account collection. (in one query)**

**.**

1. **Display first and last document from account master on the basis of account type.**
2. **Add a new field no\_resource\_occupied into employee master where the salary is greater than 25000.**
3. **Add the new field no\_of\_customers to each document in branch\_master.**
4. **Add 1000 INR to salary of every employee in organization.**
5. **Add 5000 INR to salary of only those employees where designation is QA.**
6. **Decrease debt of 5000 for paldi branch in branch master table.**
7. **Add a new field query\_solved in employee master.**
8. **Remove the filed – query\_solved from employee master.**
9. **Multiply salary of an employee to 0.5 where designation is business analyst.**
10. **Create the following collection – inventory and insert the following two documents:**
    1. **(name:”craft paper”, color(red,silver,pink,blue)**
    2. **(name: ”crayons”, color(red,green,silver,gloden,black )**
11. **Insert a new color – ‘green’ for craft paper. (insert a new element into existing array)**
12. **Insert two new colors – ‘yellow’ and ‘blue’ for crayons.**
13. **Try to insert the red color for the craft paper. It should be inserted as the color is already there. (use suitable operator)**
14. **Add a new filed Branch\_Status into branch master for all documents with default value ‘open’.**
15. **Make the following changes into employee master.**
    1. **Change the filed name Product\_Name to System\_name for all documents wherever applicable.**
    2. **Change the filed name skill\_area to Expertise where the name of the employee is mita.**