

```
Ans1) [  
  {  
    $group: {  
      _id: "$role",  
      avgsal:{$avg:"$salary"}  
    }  
  }  
]
```

```
Ans2) [  
  {  
    $group: {  
      _id: "$city",  
      numberofusers:{$sum:1}  
    }  
  }  
]
```

```
Ans3) [  
  {  
    $group: {  
      _id: "$gender",  
      avgage:{$avg:"$age"}  
    }  
  }  
]
```

```
Ans4) [  
  {  
    $group: {  
      _id:{role:"$role",city:"$city"},  
      totalsalary:{$sum:"$salary"}  
    }  
  }  
]
```

```
Ans5) [  
  {  
    $group: {  
      _id:{gender:"$gender",city:"$city"},  
      maxsalary:{$max:"$salary"}  
    }  
  }  
]
```

Ans6) [

```
{
  $unwind: "$skills"
},
{
  $group: {
    _id: "$skills",
    countofusers: { $sum: 1 }
  }
}
]
```

Ans7) [

```
{
  $group: {
    _id: "$role",
    minage: { $min: "$age" }
  }
}
]
```

Ans8) [

```
{
  $group: {
    _id: { gender: "$gender", city: "$city" },
    avgsalary: { $avg: "$salary" }
  }
}
]
```

Ans9) [

```
{
  $group: {
    _id: "$role",
    cities: { $addToSet: "$city" }
  }
}]
```

```
Ans10) [  
  {  
    $group: {  
      _id: "$age",  
      numberofusers:{$sum:1}  
    }  
  }  
]
```

```
Ans11) [  
  {  
    $addFields: {  
      numberofskills:{$size:"$skills"}  
    }  
  },  
  {  
    $group: {  
      _id: "$city",  
      avgskillcount:{$avg:"$numberofskills"}  
    }  
  }  
]
```

```
Ans12) [  
  {  
    $group: {  
      _id: "$role",  
      highestsalary:{$max:"$salary"}  
    }  
  }  
]
```

```
Ans13) [  
  {  
    $group: {  
      _id: "$gender",  
      numberofusers:{$sum:1}  
    }  
  }  
]
```

```
Ans14) [  
  {  
    $group: {  
      _id: "$gender",  
      numberofusers:{$sum:1}  
    }  
  }  
]
```

```
{
  $group: {
    _id: "$city",
    avgage:{$avg:"$age"}

  }
}]
```

Ans15) [

```
{
  $group: {
    _id: {role:"$role",gender:"$gender"},
    avgsalary:{$avg:"$salary"}

  }
}]
```

Ans16) [

```
{
  $unwind: "$skills"
},
{
  $group: {
    _id:"$skills",
    numberofusers:{$sum:1}

  }
}]
```

Ans17) [

```
{
  $group: {
    _id:"$age",
    maxsal:{$max:"$salary"}

  }
}]
```

Ans18) [

```
{
  $addField: {
```

```

        numberofskills: {$size:"$skills"}
    }
}
,{
    $match: {
        numberofskills:{"$gt":3}
    }
},
{
    $group: {
        _id: "$role",
        numberofusers:{$sum:1}
    }
}
]

```

```

Ans19) [
{
    $addFields: {
        numberofskills:{$size:"$skills"}
    }
},
{
    $group: {
        _id: {city:"$city",gender:"$gender"}
    },
    avgskillcount:{$avg:"$numberofskills"}
}
}]

```

```

Ans20) [
{
    $group: {
        _id: "$role",
        maxsal:{$max:"$salary"},
        minsal:{$min:"$salary"}
    }
}
]

```

```

Ans21) [
{
    $group: {
        _id:{city: "$city",role:"$role"},
    }
}
]

```

```
    avgnumber:{$avg:1}
  }
}
]
```

```
Ans22) [
{
  $group: {
    _id:{gender: "$gender",role:"$role"},
    avgsalary:{$avg:"$salary"}
  }
}
]
```

```
Ans23) [
{
  $match: {
    salary:{$gt:1000000}
  }
},
{
  $group: {
    _id:"$age",
    numberofusers:{$sum:1}
  }}
]
```

```
Ans24) [
{
  $unwind: "$skills"
},
{
  $group: {
    _id:"$skills",
    avgsalary:{$avg:"$salary"}
  }}
]
```

```
Ans25) [
{
  $group: {
    _id:{role:"$role",city:"$city"},
    avgage:{$avg:"$age"}
  }}
]
```

```
  }}  
]
```

```
Ans26) [  
  {  
    $match: {  
      skills:"Java"  
    }  
  },  
  {  
    $group: {  
      _id:"$gender",  
      numberofusers:{$sum:1}  
    }  
  }  
]
```

```
Ans27) [  
  {  
    $addFields: {  
      numberofskills: {$size:"$skills"}  
    },  
    {  
      $group: {  
        _id:"$city",  
        maximumskillcount:{$max:"$numberofskills"}  
      }  
    }  
  }  
]
```

```
Ans28) [  
  {  
    $match: {  
      skills:"Python"  
    }  
  },  
  {  
    $group: {  
      _id:"$role",  
      countofusers:{$sum:1}  
    }  
  }  
]
```

```

Ans29) [
  {
    $addFields: {
      numberofskills:{$size:"$skills"}
    }
  },{
    $match: {
      numberofskills:{$gt:2}
    }
  },{
    $group: {
      _id: {gender:"$gender",city:"$city"},
      avgsal:{$avg:"$salary"}
    }
  }
]

```

```

Ans30) [{
  $group: {
    _id: "$age",
    countofusers:{$sum:1}
  }
}]

```

```

Ans31) [
  {
    $match: {
      role:"customer",
      city:"Mumbai"
    }
  },{
    $group: {
      _id: "$role",
      totalsalary:{$sum:"$salary"}
    }
  }
]

```

```

Ans32) [
  {
    $match: {
      role:"admin"
    }
  }
]

```



```

},{
  $group: {
    _id: "$city",
    maxsalary:{$max:"$salary"}
  }
}]

```

```

Ans33) [
  {
    $match: {
      salary:{$gt:500000}
    }
  },{
    $group: {
      _id: "$gender",
      numberofusers:{$sum:1}
    }
  }
}]

```

```

Ans34) [
  {
    $unwind: "$skills"
  },
  {
    $group: {
      _id:"$skills",
      avgage:{$avg:"$age"}
    }
  }
]

```

```

Ans35) [{
  $addFields: {
    numberofskills:{$size:"$skills"}
  }
}, {
  $match: {
    salary:{$lt:700000}
  }
},
{
  $group: {
    _id:"$role",
    avgskillcount:{$avg:"$numberofskills"}
  }
}]

```

```
]
```

```
Ans36) [ {  
  $match: {  
    skills:"Python"  
  }  
},  
{  
  $group: {  
    _id:{city:"$city",gender:"$gender"},  
    avgsalary:{$avg:"$salary"}  
  }}  
]
```

```
Ans37) [ {  
  $match: {  
    role:"admin"  
  }  
},  
{  
  $group: {  
    _id:"$age",  
    numberofusers:{$sum:1}  
  }}  
]
```

```
Ans38) [ {  
  $match: {  
    skills:"C++"  
  }  
},  
{  
  $group: {  
    _id:{role:"$role",city:"$city"},  
    numberofusers:{$sum:1}  
  }}  
]
```

Ans39)

```
Ans40) [  
  {  
    $unwind: "$skills"  
  },  
]
```

```
{
  $group: {
    _id:"$skills",
    maxage:{$max:"$age"}
  }
}
```

```
Ans41) [
  {
    $addFields: {
      numberofskills:{$size:"$skills"}
    }
  },
  {
    $match: {
      numberofskills:{$gt:1}
    }
  },
  {
    $group: {
      _id: {role:"$role",city:"$city"},
      countofusers:{$sum:1}
    }
  }
]
```

```
Ans42) [
  {
    $match: {
      salary:{$lt:500000}
    }
  },
  {
    $group: {
      _id: {gender:"$gender",city:"$city"},
      countofusers:{$sum:1}
    }
  }
]
```

```
Ans43) [
  {
    $match: {
      role:"customer"
    }
  }
]
```

```

    }
  }
  ,{
    $group: {
      _id: "$age",
      avgsalary:{$avg:"$salary"}
    }
  }
]

```

```

Ans44) [
  {
    $match: {
      skills:"Kotlin"
    }
  }
  ,{
    $group: {
      _id: "$role",
      avgsalary:{$avg:"$salary"}
    }
  }
]

```

```

Ans45) [
  {
    $match: {
      role:"admin"
    }
  }
  ,{
    $group: {
      _id: "$city",
      countofusers:{$sum:1}
    }
  }
]

```

```

Ans46) [
  {
    $match: {
      skills:{$all:["Java","Python"]}
    }
  }
]

```

```
,{
  $group: {
    _id: "$gender",
    countofusers:{$sum:1}
  }
}
]
```

```
Ans47) [
  {
    $match: {
      role:"customer"}
  }
  ,{
    $group: {
      _id: "$age",
      countofusers:{$sum:1}
    }
  }
]
```

```
Ans48) [
  {
    $match: {
      skills:"DBMS"}
  }
  ,{
    $group: {
      _id: {role:"$role",city:"$city"},
      countofusers:{$sum:1}
    }
  }
]
```

```
Ans49) [
  {
    $addFields: {
      numberofskills:{$size:"$skills"}
    }
  }
  ,{
    $match: {
      numberofskills:{$gt:3}
    }
  }
]
```

```

    }
    ,{
      $group: {
        _id: "$gender",
        countofusers:{$sum:1}
      }
    }
  ]

```

```

Ans50) [
  {
    $addFields: {
      numberofskills:{$size:"$skills"}
    }
  }
  ,{
    $match: {
      numberofskills:{$gt:3}
    }
  }
  ,{
    $group: {
      _id: "$gender",
      countofusers:{$sum:1}
    }
  }
]

```

```

Ans51) [
  {
    $match: {
      role:"admin"
    }
  }
  ,{
    $group: {
      _id: "$age",
      maxsalary:{$max:"$salary"}
    }
  }
]

```

```

Ans52) [
  {

```

```

    $match: {
      skills:"JavaScript"
    }
  }
  ,{
    $group: {
      _id: {role:"$role",city:"$city"},
      totalsalary:{$sum:"$salary"}
    }
  }
]

```

```

Ans53) [
  {
    $match: {
      role:"customer"
    }
  }
  ,{
    $group: {
      _id:"$gender",
      avgsalary:{$avg:"$salary"}
    }
  }
]

```

```

Ans54) [
  {
    $match: {
      skills:"React"
    }
  }
  ,{
    $group: {
      _id:"$city",
      countofusers:{$sum:1}
    }
  }
]

```

```

Ans55) [
  {
    $match: {
      skills:"SQL"
    }
  }
]

```

```

    }
  }
  ,{
    $group: {
      _id:"$age",
      avgsalary:{$avg:"$salary"}
    }
  }
]

```

```

Ans56) [
  {
    $match: {
      skills:"Django"
    }
  }
  ,{
    $group: {
      _id:"$role",
      countofusers:{$sum:1}
    }
  }
]

```

```

Ans57) [
  {
    $addFields: {
      numberofskills:{$size:"$skills"}
    }
  }

  ,{
    $group: {
      _id: "$gender",
      maxskillcount:{$max:"$numberofskills"}
    }
  }
]

```

```

Ans58) [
  {
    $match: {
      skills:"Node.js"
    }
  }
]

```



```

}

,{
  $group: {
    _id: "$city",
    countofusers:{$sum:1}
  }
}
]

```

```

Ans59) [
  {
    $match: {
      skills:{$all:["HTML","CSS"]}
    }
  }
  ,{
    $group: {
      _id: "$age",
      countofusers:{$sum:1}
    }
  }
]

```

```

Ans60) [
  {
    $addFields: {
      numberofskills:{$size:"$skills"}
    }
  }
  ,{
    $match: {
      salary:{$gt:1000000}
    }
  }
  ,{
    $group: {
      _id: {gender:"$gender",role:"$role"},
      avgskillcount:{$avg:"$numberofskills"}
    }
  }
]

```