# Reports and Visualizations (Using Tableau)

## Reports from Views:
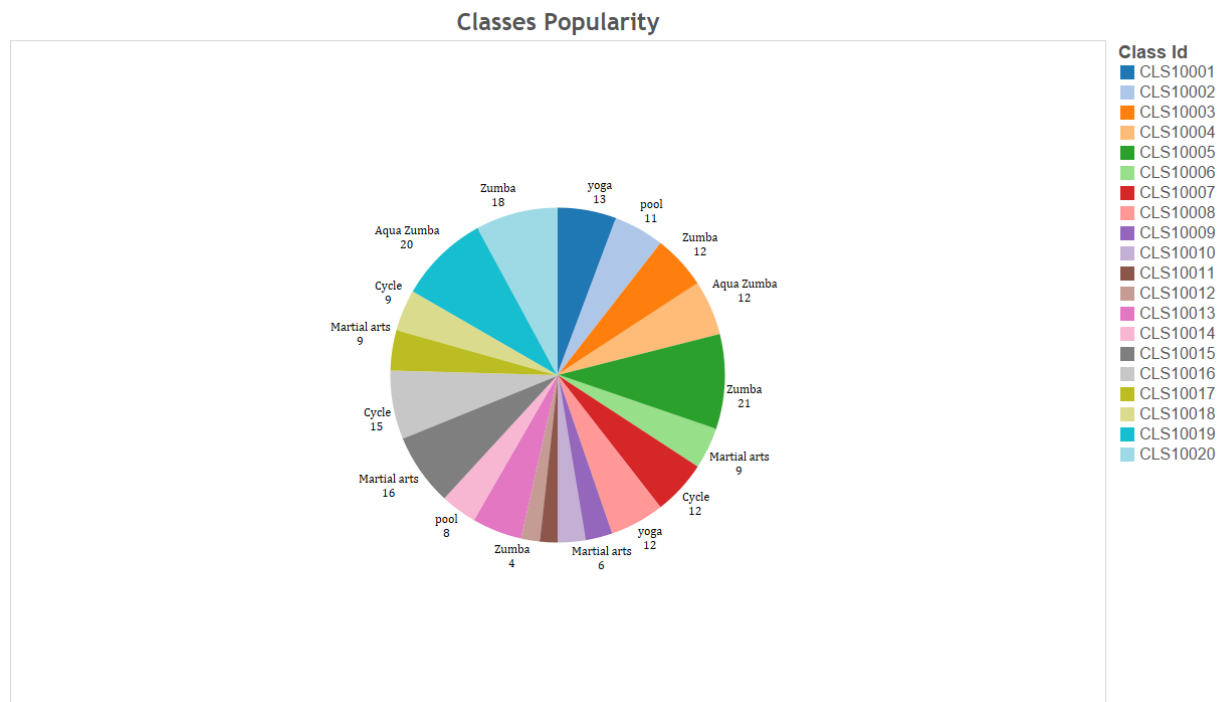
### 1. Fitness Classes Popularity:

#### Report in SQL Server:

```
SELECT * FROM [TEAM10_SMD].[dbo].[Classes popularity]
```

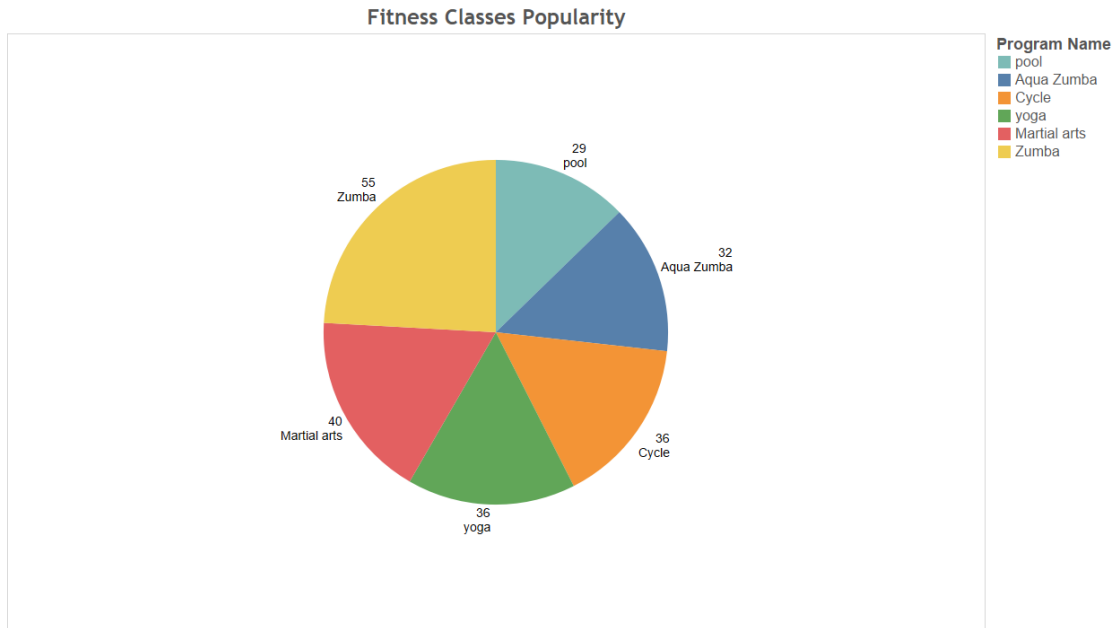| | ClassId | ProgramName | Total Enrollment |
|---|---|---|---|
| 1 | CLS10001 | yoga | 13 |
| 2 | CLS10002 | pool | 11 |
| 3 | CLS10003 | Zumba | 12 |
| 4 | CLS10004 | Aqua Zumba | 12 |
| 5 | CLS10005 | Zumba | 21 |
| 6 | CLS10006 | Martial arts | 9 |
| 7 | CLS10007 | Cycle | 12 |
| 8 | CLS10008 | yoga | 12 |
| 9 | CLS10009 | pool | 6 |
| 10 | CLS10010 | Martial arts | 6 |
| 11 | CLS10011 | pool | 4 |
| 12 | CLS10012 | Zumba | 4 |
| 13 | CLS10013 | yoga | 11 |
| 14 | CLS10014 | pool | 8 |
| 15 | CLS10015 | Martial arts | 16 |
| 16 | CLS10016 | Cycle | 15 |
| 17 | CLS10017 | Martial arts | 9 |
| 18 | CLS10018 | Cycle | 9 |
| 19 | CLS10019 | Aqua Zumba | 20 |
| 20 | CLS10020 | Zumba | 18 |

#### Visualization 1:



Classes Popularity

**Description:**
Color of the pie chart shows ClassID. Label on the pie chart shows name of Fitness Classes and number of Enrollments

**Visualization 2:**



Fitness Classes Popularity

**Description:**
Above Pie chart shows Popularity of fitness classes irrespective of ClassID's, hence shows popularity across all branches.
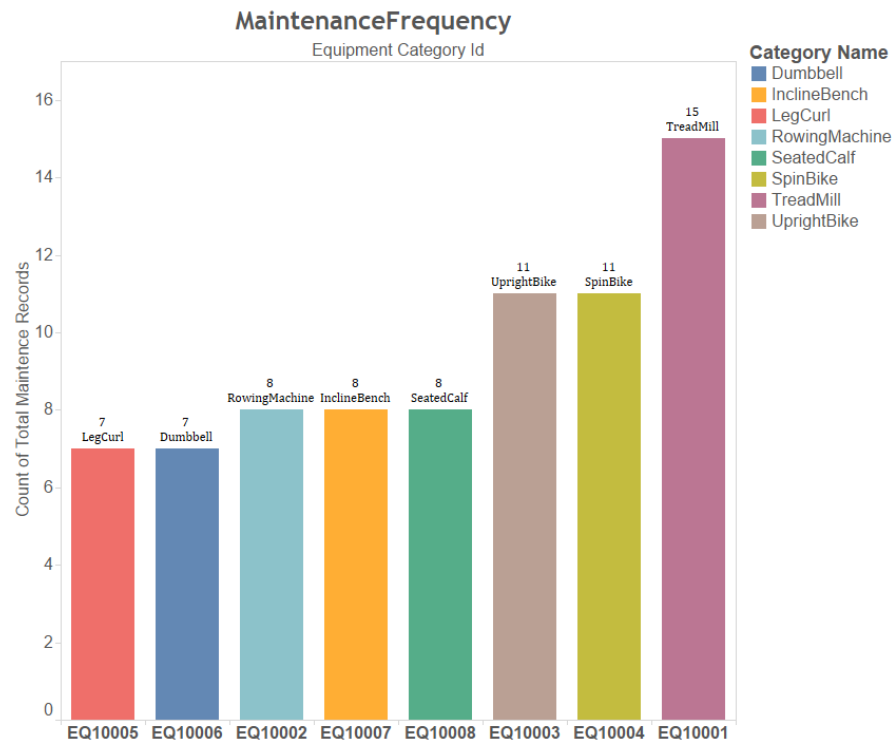
## 2. Equipment Maintenance Frequency:

**Report in SQL Server:**



```
SELECT * FROM [TEAM10_SMD].[dbo].[Maintainance Frequency]
```

| | EquipmentCategoryId | CategoryName | Total Maintence Records |
|---|---|---|---|
| 1 | EQ10001 | TreadMill | 15 |
| 2 | EQ10002 | RowingMachine | 8 |
| 3 | EQ10003 | UprightBike | 11 |
| 4 | EQ10004 | SpinBike | 11 |
| 5 | EQ10005 | LegCurl | 7 |
| 6 | EQ10006 | Dumbbell | 7 |
| 7 | EQ10007 | InclineBench | 8 |
| 8 | EQ10008 | SeatedCalf | 8 |

**Visualization 1:**



**MaintenanceFrequency**

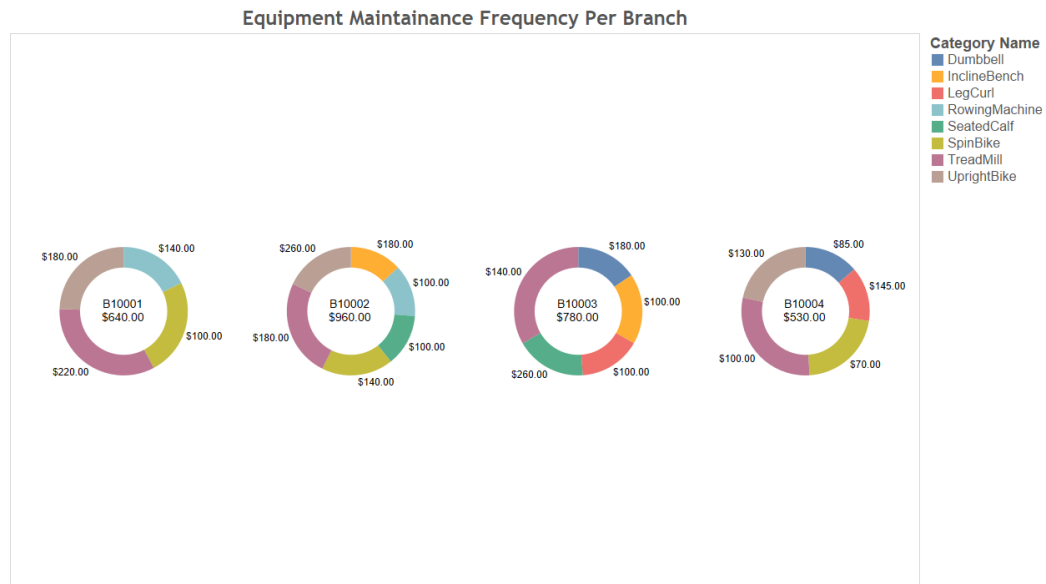**Description:**

The graph is sorted in ascending order based on count of maintenance records. Color of the pie chart shows different Equipment Category Names. Label on the pie chart shows number of maintenance records for each equipment and the equipment name.

**Visualization 2:**



Equipment Maintainance Frequency Per Branch

**Description:**

Above graph shows the results of only 4 branches (B10001,B10002,B10003,B10003) as only 4 of 10 branches have undergone equipment maintenance till date. Color of the Donut chart represents different equipment category names. Label shows the maintenance cost of each equipment and labels at the center of donut chart represents total maintenance cost for all equipment of a branch.

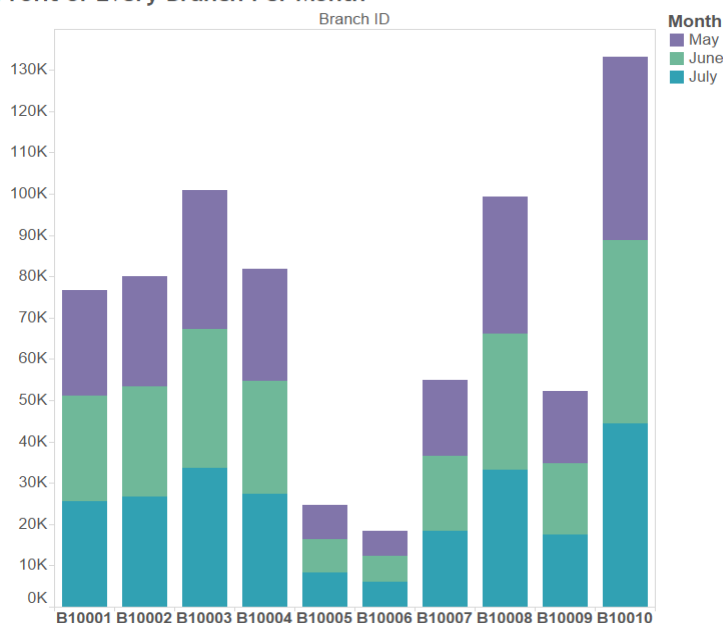3. **Profits per Branch:**

**Report in SQL Server:**

```
SELECT BranchID,TotalProfit,Month FROM [dbo].[ProfitPerBranch]
ORDER BY BranchID,Month
```

| | BranchID | TotalProfit | Month |
|---|---|---|---|
| 1 | B10001 | 18452 | 5 |
| 2 | B10001 | 29252 | 6 |
| 3 | B10001 | 29072 | 7 |
| 4 | B10002 | 19459 | 5 |
| 5 | B10002 | 30559 | 6 |
| 6 | B10002 | 30289 | 7 |
| 7 | B10003 | 26583 | 5 |
| 8 | B10003 | 37383 | 6 |
| 9 | B10003 | 37163 | 7 |
| 10 | B10004 | 19718 | 5 |
| 11 | B10004 | 31118 | 6 |
| 12 | B10004 | 31118 | 7 |
| 13 | B10005 | 619 | 5 |
| 14 | B10005 | 12019 | 6 |
| 15 | B10005 | 12019 | 7 |
| 16 | B10006 | -1270 | 5 |
| 17 | B10006 | 9830 | 6 |
| 18 | B10006 | 9830 | 7 |

(There are total 30 rows, as all rows could not be accommodated, we have first 18 records in our screenshot)

**Visualization 1:**
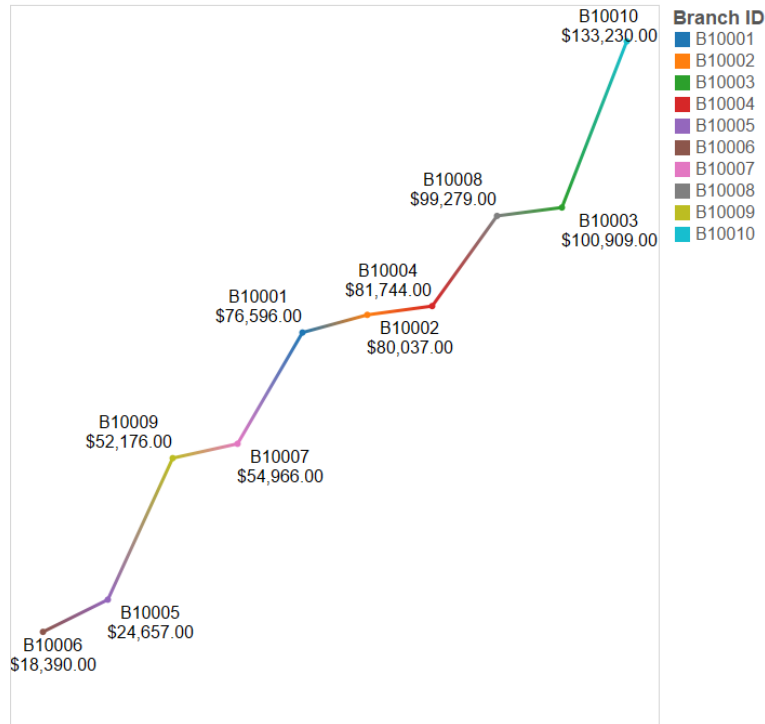


Profit of Every Branch Per Month

**Description:**

Above graph shows the results of all Branches profits for the last 3 months (May, June and July). Different colors represent Months, labels indicate BranchIDs.

**Visualization 2:**

TotalProfitPerBranch_2019



| Branch ID |
|-----------|
| B10001 |
| B10002 |
| B10003 |
| B10004 |
| B10005 |
| B10006 |
| B10007 |
| B10008 |
| B10009 |
| B10010 |

**Description:**

Above graph shows the results of all Branches profits for the year 2019. Different colors represent BranchIDs, Labels in the Line graph shows BranchID's and their profits for the year 2019.
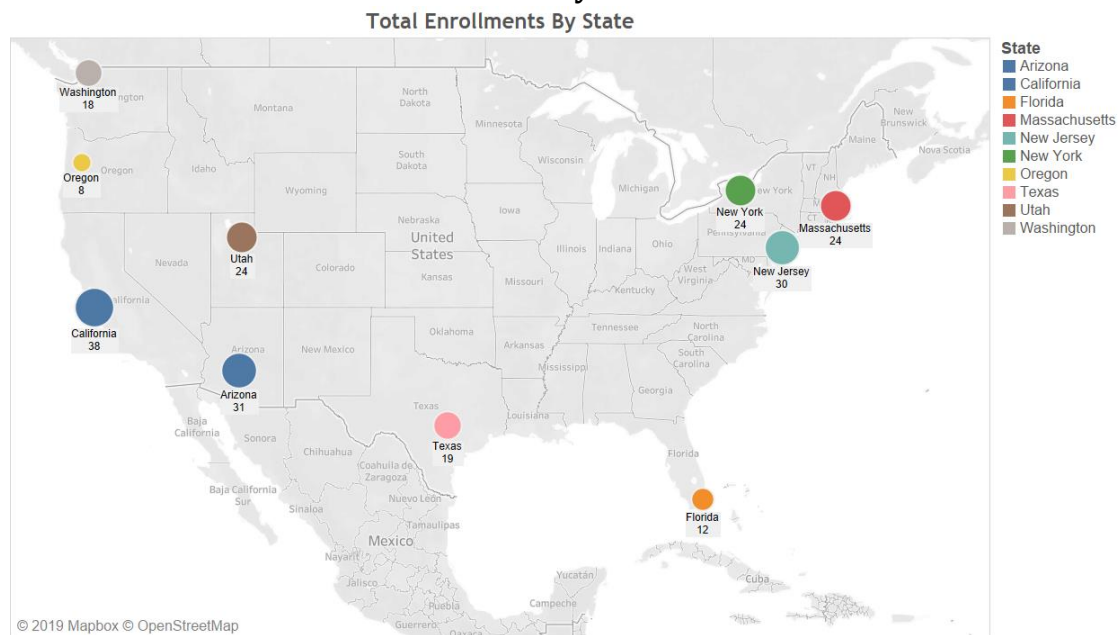
## 4. Instructor Information:

| Gender | Class Id | Program N.. | First Na.. | Last Name | Email |
|--------|----------|-------------|------------|-----------|-------|
| F | CLS10003 | Zumba | Suchitra | Mohan | suchitra0@gmail.com |
| | CLS10004 | Aqua Zumba | Suchitra | Mohan | suchitra0@gmail.com |
| | CLS10019 | Aqua Zumba | Samantha | Smith | samantha0@gmail.com |
| | CLS10020 | Zumba | Samantha | Smith | samantha0@gmail.com |
| M | CLS10001 | yoga | Peter | Krebs | peter0@gmail.com |
| | CLS10002 | pool | Peter | Krebs | peter0@gmail.com |
| | CLS10005 | Zumba | Michael | Ray | michael3@gmail.com |
| | CLS10006 | Martial arts | Michael | Ray | michael3@gmail.com |
| | CLS10007 | Cycle | Jeffrey | Ford | jeffrey0@gmail.com |
| | CLS10008 | yoga | Jeffrey | Ford | jeffrey0@gmail.com |
| | CLS10009 | pool | Cristian | Petculescu | cristian0@gmail.com |
| | CLS10010 | Martial arts | Cristian | Petculescu | cristian0@gmail.com |
| | CLS10011 | pool | Jian Shuo | Wang | jianshuo0@gmail.com |
| | CLS10012 | Zumba | Jian Shuo | Wang | jianshuo0@gmail.com |
| | CLS10013 | yoga | Jinghao | Liu | jinghao0@gmail.com |
| | CLS10014 | pool | Jinghao | Liu | jinghao0@gmail.com |
| | CLS10015 | Martial arts | Thomas | Michaels | thomas0@gmail.com |
| | CLS10016 | Cycle | Thomas | Michaels | thomas0@gmail.com |
| | CLS10017 | Martial arts | Kevin | Homer | kevin2@gmail.com |
| | CLS10018 | Cycle | Kevin | Homer | kevin2@gmail.com |

**Description:**
Above report shows the information of all instructors of the fitness classes across all branches.

# Other Visualizations in Tableau:

## 1. Total Enrollments of all branches By State



**Description:**
Above map shows the information of total customer enrollments for each branch. The size of circle indicates the count of enrollments. Color represents State where a branch is located.
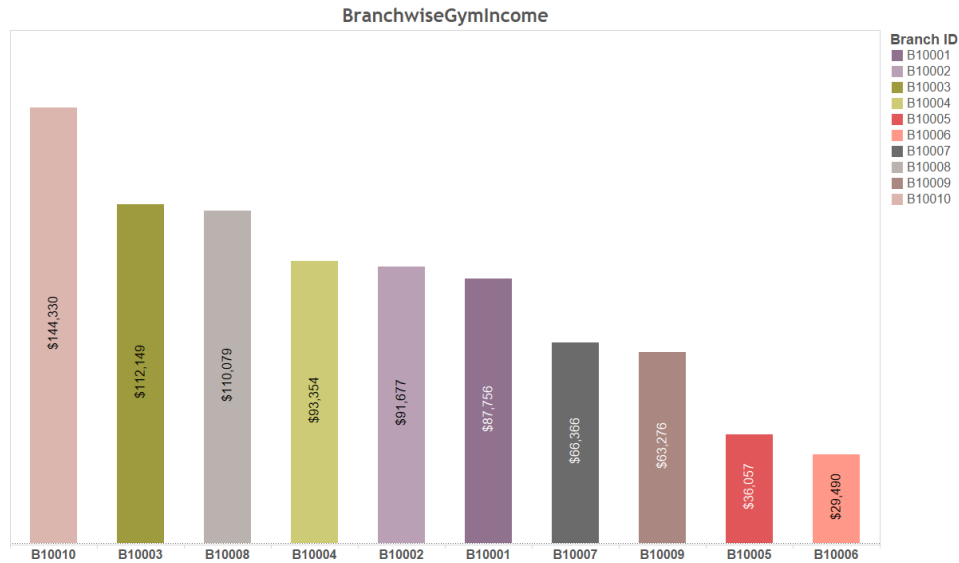
## 2. Total Employee Salaries of all Branches

### BranchwiseTotalSalary

| | May 2019 | June 2019 | July 2019 | Branch Id |
|---|---|---|---|---|
| B10001 | 3,600.0 | 3,600.0 | 3,600.0 | ■ B10001 |
| B10002 | 3,700.0 | 3,700.0 | 3,700.0 | ■ B10002 |
| B10003 | 3,600.0 | 3,600.0 | 3,600.0 | ■ B10003 |
| B10004 | 3,800.0 | 3,800.0 | 3,800.0 | ■ B10004 |
| B10005 | 3,800.0 | 3,800.0 | 3,800.0 | ■ B10005 |
| B10006 | 3,700.0 | 3,700.0 | 3,700.0 | ■ B10006 |
| B10007 | 3,800.0 | 3,800.0 | 3,800.0 | ■ B10007 |
| B10008 | 3,600.0 | 3,600.0 | 3,600.0 | ■ B10008 |
| B10009 | 3,700.0 | 3,700.0 | 3,700.0 | ■ B10009 |
| B10010 | 3,700.0 | 3,700.0 | 3,700.0 | ■ B10010 |

**Description:**

Above results show the employee salaries for the last 3 months (May, June and July 2019) based on Branches that an employee is working with.

### 3. Gym Income:



BranchwiseGymIncome

| Branch ID |
| --- |
| ■ B10001 |
| ■ B10002 |
| ■ B10003 |
| ■ B10004 |
| ■ B10005 |
| ■ B10006 |
| ■ B10007 |
| ■ B10008 |
| ■ B10009 |
| ■ B10010 |

$144,330 — B10010
$112,149 — B10003
$110,079 — B10008
$93,354 — B10004
$91,677 — B10002
$87,756 — B10001
$66,366 — B10007
$63,276 — B10009
$36,057 — B10005
$29,490 — B10006

**Description:**

Above Bar Graph shows the Branch-wise income for Gym based on customer membership fees. Different colors on graph indicate different branches and the label in amount indicates the membership fees from customers to GYM.