

MySQL MAIN PROJECT

Submitted by:

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- Batch: PY DS OCT 2024 BI
(Sabir 2pm Batch)
- Data Taken: Library Data (Open Data release of Library Data for Cambridgeshire)

INTRODUCTION

- In this SQL project, I have tried to analyse a dataset which was publicly available, trying to find insights using queries.
- The project mainly focus on data filtering, cleaning and the use of joins to find relations between the different files with same field names or filed values.

DATA

- The data was taken from [The portal](#) , which is a central point of access to European open data from international, European Union, national, regional, local and geodata portals. It consolidates the former EU Open Data Portal and the European Data Portal.
- it is Open Data release of Library Data for Cambridgeshire. Dataset includes: Events, Loans, Mobile Library Routes, Library Opening Times and Physical Visits.
- Citation: Library Data. (2020). [Data set]. Cambridgeshire Insight.
<http://data.europa.eu/88u/dataset/library-data> (Original work published 2020)

FILES & VARIABLES

| FILE NAMES (as uploaded in mySQL) | VARIABLE NAMES |
|-----------------------------------|---|
| library1 | Vehicle, Route, B, Day, Stop No, Main Location, Secondary Location, Postcode , Freq, Easting, Northing, Arrive, Depart, Stop Duration, Stop Time, Stop Time dec, ID |
| library2 | Local Authority, Library , Date, Name, Attendees |
| library3 | Local Authority, Library , Count Start, Count End, Count Type, visits |
| library4 | Local authority, Library name , Address 1, Address 2, Address 3, Postcode , Statutory, Type of library, Year Opened, Year Closed, Monday staffed hours, Tuesday staffed Hours, Wednesday Staffed hours, Thursday Staffed hours, Friday Staffed hours, Saturday Staffed hours, Sunday Staffed hours, Monday Unstaffed hours, Tuesday Unstaffed hours, Wednesday Unstaffed hours, Thursday Unstaffed hours, Friday Unstaffed hours, Saturday Unstaffed hours, Sunday Unstaffed hours, Special Hours, Co-located, Co-located with, Notes, URL, Email Address |
| library5 | Local Authority, Library , Month, Type, Loans |

OBJECTIVE

- To analyse and understand what the data story is and to simplify the key take aways avoiding the un-important findings which paved the way for the conclusions and identifications

ANALYSIS OF FIRST FILE

- Identifying main location with maximum stop count monthly

work by Neha Mahanand

Identifying main location with maximum stop count monthly

```
18
19 • SELECT 'Main Location', COUNT(*) AS Stop_Count FROM library1 WHERE Freq='monthly' GROUP BY 'Main Location' ORDER BY Stop_Count DESC;
20
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

| Main Location | Stop_Count |
|---------------|------------|
| Cambridge | 11 |
| Girton | 6 |
| Wisbech | 6 |
| Brampton | 5 |
| Huntingdon | 5 |
| Barton | 4 |
| Duxford | 4 |
| Eaton Socon | 4 |

Result 44 x

Output

Main Location with highest stop count: Cambridge (count 11)

ANALYSIS OF SECOND FILE

- Number of libraries in the local authority
- Total attendees in “Cambridgeshire”
- Date and number of attendees for the distinct dates
- Libraries with total attendees in descending order to find most visited library

Number of libraries in the local authority

```
67 • SELECT
68     `Local Authority`,
69     COUNT(DISTINCT Library) AS Library_Count
70 FROM
71     library2
72 GROUP BY
73     `Local Authority`
74 ORDER BY
75     Library_Count DESC,
76
```

Result Grid | | Filter Rows: | Export: | Wrap Cell Content:

| Local Authority | Library_Count |
|-----------------|---------------|
| Cambridgeshire | 32 |

Libraries count 32 (data is about only one local authority-Cambridgeshire)

Total attendees in cambridgeshire

```
60 • select `Local Authority`,  
61      sum(Attendees) as Total_attendees  
62      from library2  
63      group by `Local Authority`  
64      order by Total_attendees desc;  
65
```

| Result Grid | Filter Rows: | Export: |
|------------------|-----------------|---------|
| Local Authority | Total_attendees | |
| ▶ Cambridgeshire | 105299 | |

Cambridgeshire local authority had 105299 attendees

Date and number of attendees for the distinct dates

```
52 • select
53   `Date`,
54   sum(Attendees) as total_attendees
55 from library2
56 group by `Date`
57 order by total_attendees desc;
58
```

Result Grid | Filter Rows: | Export:

| | Date | total_attendees |
|---|------------|-----------------|
| ▶ | 15-07-2019 | 2375 |
| | 12-07-2019 | 1588 |
| | 26-06-2019 | 1407 |
| | 07-12-2019 | 1301 |
| | 09-07-2019 | 1281 |
| | 11-06-2019 | 1214 |
| | 10-07-2019 | 1179 |
| | 27-06-2019 | 1135 |
| | 17-07-2019 | 1126 |

Libraries with total attendees in descending order to find most visited library

```
60 • select `Library`,  
61      sum(Attendees) as Total_attendees  
62      from library2  
63      group by `Library`  
64      order by Total_attendees desc;  
65
```

Result Grid | Filter Rows: | Export:

| Library | Total_attendees |
|-------------------|-----------------|
| Cambridge Central | 22317 |
| St Neots | 8653 |
| St Ives | 8433 |
| Ely | 7145 |
| Huntingdon | 6198 |
| March | 5682 |
| Wisbech | 4937 |
| Arbury Court | 4344 |
| Bar Hill | 4190 |

Cambridge Central
Library has most
attendees

ANALYSIS OF THIRD FILE

- Top and bottom 3 libraries with most & least visits
- Counting the type of visits to see the preference
- Preferred choice for count type for most visited library-'cambridge central'

Top and bottom 3 libraries with most & least visits

```
86 • select Library,  
87     sum(visits) as total_visits  
88     from library3  
89     group by Library  
90     order by total_visits desc limit 3;  
91
```




| Result Grid | Filter Rows: | Export: |
|-------------------|--------------|---------|
| Library | total_visits | |
| Cambridge Central | 943703 | |
| Huntingdon | 321310 | |
| Ely | 266925 | |

```
92 • select Library,  
93     sum(visits) as total_visits  
94     from library3  
95     group by Library  
96     order by total_visits limit 3;  
97
```

| Result Grid | Filter Rows: | Export: |
|-------------|--------------|---------|
| Library | total_visits | |
| HMOB | 9351 | |
| MMOB | 9378 | |
| CMOB | 10545 | |

Counting the type of visits to see the preference

```
100 • select `Count Type`, count(*) as Preference from library3 group by `Count Type` order by Preference desc;
101
```

Result Grid |  Filter Rows: | Export:  | Wrap Cell Content: 

| | Count Type | Preference |
|---|--------------------|------------|
| ▶ | Manual/electric | 30 |
| | Electronic Counter | 6 |
| | Thermal Imaging | 1 |

Preferred choice for count type for most visited library-'Cambridge central'

```
03
04 • select `Count Type`, count(*) as Preference
05 from library3
06 where Library='Cambridge Central'
07 group by `Count Type`
08 order by Preference;
09
```

| Count Type | Preference |
|-----------------|------------|
| Thermal Imaging | 1 |

```
10 • select *
11 from library3
12 where Library='Cambridge Central';
```

| Local Authority | Library | Count Start | Count End | Count Type | visits |
|-----------------|-------------------|-------------|-----------|-----------------|--------|
| Cambridgeshire | Cambridge Central | 2018-Apr | 2019 Dec | Thermal Imaging | 943703 |

Thermal Imaging

ANALYSIS OF FOURTH FILE

- Analysing the types of library and its count
- Counting libraries opened in different years
- Selected details of libraries opened in 2010
- Details of unstaffed library hours
- Names of closed libraries
- Finding list of co-located libraries
- Count of libraries with field 'co-located with'

Analysing the types of library and its count

```
121 • select `Type of library`,count(*) from library4 group by `Type of library`;
```

Result Grid



Filter Rows:



Export:



Wrap Cell Content:



| | Type of library | count(*) |
|---|-------------------------|----------|
| ▶ | Local Authority Service | 34 |
| | Community Library | 6 |

Counting libraries opened in different years

```
118 • select `Year Opened`,count(*) as no_of_lib_opened from library4 group by `Year Opened` order by no_of_lib_opened desc;
119
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

| Year Opened | no_of_lib_opened |
|-------------|------------------|
| 2010 | 12 |
| 2000 | 4 |
| 1975 | 3 |
| 1999 | 2 |
| 1992 | 2 |
| 2009 | 2 |
| 1966 | 1 |

2010 is the year with maximum number of libraries (12) opened

Selected details of libraries opened in 2010

```
24 • select `Library name`,`type of library`,`Co-located with`,Postcode
25 from library4
26 where `Year Opened`=2010;
```

Result Grid |   Filter Rows: | Export:  | Wrap Cell Content: 

| Library name | type of library | Co-located with | Postcode |
|------------------------------|-------------------------|---------------------|----------|
| Bassingbourn Book Café | Community Library | Community Centre | SG8 5LD |
| Bottisham Community Library | Community Library | Village College | CB25 9DL |
| Brampton Community Library | Local Authority Service | Community Centre | PE28 4TH |
| Burwell Library | Local Authority Service | Village College | CB25 0DU |
| Fulbourn Village Library | Local Authority Service | Community Centre | CB21 5HD |
| Gamlingay Library | Local Authority Service | Community Centre | SG19 3JR |
| Haddenham Library | Local Authority Service | Community Centre | CB6 3XD |
| Littleport Library | Local Authority Service | | CB6 1LU |
| Melbourn Library | Community Library | Community Centre | SG6 6DZ |
| Somersham Community Library | Local Authority Service | | PE28 3EG |
| Swavesey Community Library | Community Library | Village College | CB24 4RS |
| Waterbeach Community Library | Community Library | Community Primar... | CB25 9JU |

Details of unstaffed library hours

```
129 • select `Library name`,`Monday Unstaffed hours`,`Tuesday Unstaffed hours`,`Wednesday Unstaffed hours`,`Thursday Unstaffed hours`  
130 from library4  
131 where (`Tuesday Unstaffed hours` !='')  
132 or (`Wednesday Unstaffed hours` !='')  
133 or (`Thursday Unstaffed hours` !='')  
134 or (`Friday Unstaffed hours` !='')  
135 or (`Saturday Unstaffed hours` !='');
```

| Result Grid | | | | | | | |
|-------------------|------------------------|-------------------------|---------------------------|--------------------------|------------------------|--------------------------|--|
| Filter Rows: | | Export: | | Wrap Cell Content: | | | |
| Library name | Monday Unstaffed hours | Tuesday Unstaffed hours | Wednesday Unstaffed hours | Thursday Unstaffed hours | Friday Unstaffed hours | Saturday Unstaffed hours | |
| ▶ St Ives Library | | | | 1.30pm-6pm | | | |

Names of closed libraries

```
9 • select `Library name`,`Year Opened`,`Year Closed`  
0 from library4  
1 where `Year Closed` != '';
```

Result Grid | Filter Rows: | Export: | Wrap Cell Cor

| Library name | Year Opened | Year Closed |
|--------------|-------------|-------------|
|--------------|-------------|-------------|

No libraries have been closed

Finding list of co-located libraries

```
144 • select `Library name`,`Co-located`,`Co-located with`  
145 from library4  
146 where `Co-located`='Yes';
```

Result Grid |   Filter Rows: Export:  Wrap Cell Content: 

| Library name | Co-located | Co-located with |
|-----------------------------|------------|-----------------------------------|
| Bar Hill Library | Yes | Post Office |
| Bassingbourn Book Café | Yes | Community Centre |
| Bottisham Community Library | Yes | Village College |
| Brampton Community Library | Yes | Community Centre |
| Buckden Library | Yes | Community Centre |
| Burwell Library | Yes | Village College |
| Cambourne Library | Yes | Health Centre & Children's Centre |
| Cambridge Central Library | Yes | Shopping Centre |
| Chatteris Library | Yes | District Council Office |
| Cherry Hinton Library | Yes | Community Centre/Café |
| Clay Farm Library | Yes | Community Centre |
| Comberton Library | Yes | Village College |

Count of libraries with field 'co-located with'

```
149 • select `Co-located with`,count(*) as count_co from library4 where `Co-located`!='' group by `Co-located with` order by count_co desc;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

| Co-located with | count_co |
|---|----------|
| Community Centre | 11 |
| Village College | 5 |
| Post Office | 1 |
| Health Centre & Children's Centre | 1 |
| Shopping Centre | 1 |
| District Council Office | 1 |
| Community Centre/Café | 1 |
| Archives & Registrars | 1 |
| Registrars | 1 |
| District Council, Children's Centre & Community ... | 1 |
| Nursery & Neighbourhoods Team | 1 |
| Community Primary School | 1 |




Most of the libraries are co-located with 'Community Centre'

ANALYSIS OF FIFTH FILE

- Details of distinct months present in the file
- Total loan count for months
- Loan count for different libraries to identify library with highest loan number
- Loan count for different libraries to identify library with least loan number
- Analysing highest total loan for which type
- Finding highest loan type for each library
- Identifying the types of loan for the library “Cambridgeshire libraries” as it is the library with highest number of loans

Details of distinct months present in the file

```
158 • select distinct `Month` from library5;
```

Result Grid |   Filter Rows: | Export: 

| | Month |
|---|---------|
| ▶ | 2019-12 |
| | 2020-01 |

Total loan count for months

```
162 • select `Month`,sum(Loans) as count_loan from library5 group by `Month` order by count_loan desc;
```

Result Grid |   Filter Rows: | Export:  | Wrap Cell Content: 

| | Month | count_loan |
|---|---------|------------|
| ▶ | 2020-01 | 31092 |
| | 2019-12 | 19184 |

Maximum number of loans is for
“2020-01”-31092

Loan count for different libraries to
identify library with highest loan number

```
165 • select `Library`,sum(Loans) as total_loans_per_lib from library5 group by `Library` order by total_loans_per_lib desc;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

| Library | total_loans_per_lib |
|---------------------------|---------------------|
| Cambridgeshire Libraries | 5739 |
| Cambridge Central Library | 4741 |
| Ely Library | 3674 |
| St Ives Library | 3416 |
| St Neots Library | 3209 |
| Huntingdon Library | 2817 |
| Mobile Library | 1819 |
| March Library | 1803 |
| Wisbech Library | 1679 |
| Cambourne Library | 1616 |
| Histon Library | 1492 |
| Arbury Court Library | 1413 |

Cambridgeshire
Libraries has highest
total loans.

Loan count for different libraries to identify library with least loan number

```
67 • select `Library`,sum(Loans) as total_loans_per_lib from library5 group by `Library` order by total_loans_per_lib;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

| Library | total_loans_per_lib |
|-------------------------------------|---------------------|
| Cambridgeshire Collection | 3 |
| Little Downham Library Access Point | 51 |
| County Store | 62 |
| Swavesey Library Access Point | 72 |
| Bassingbourn Library Access Point | 128 |
| Brampton Community Library | 130 |
| Gamlingay Library Access Point | 137 |
| Melbourn Library Access Point | 236 |
| Papworth Library | 254 |
| Somersham Library Access Point | 268 |
| Haddenham Library Access Point | 273 |
| Sawtry Library | 278 |

Result 14 x

Cambridgeshire
Collection has
the least loan
total number

Analysing highest total loan for which type

```
.70 • select `Type`,sum(Loans) as loan_type_num from library5 group by `Type` order by loan_type_num desc;
```

result Grid |  Filter Rows: Export:  Wrap Cell Content: 

| Type | loan_type_num |
|-------------------------------------|---------------|
| Junior fiction | 16824 |
| Adult fiction paperback | 10304 |
| Adult fiction hardback | 5004 |
| Adult non fiction paperback | 4415 |
| Junior non-fiction | 3812 |
| Adult non fiction hardback | 2516 |
| Adult fiction | 1164 |
| Adult fiction large print hardback | 840 |
| Teenage | 806 |
| Adult fiction large print paperback | 798 |
| Adult spoken word CD set | 529 |
| Adult non-fiction | 431 |

“Junior fiction”
has most loan

Finding highest loan type for each library

```
73 • select Library, `Type`, SUM(Loans) as loan_type_num
74 from library5
75 group by Library, `Type`
76 order by loan_type_num desc;
77
78
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

| Library | Type | loan_type_num |
|---------------------------|-----------------------------|---------------|
| Ely Library | Junior fiction | 1608 |
| Cambridgeshire Libraries | Adult non fiction paperback | 1342 |
| St Neots Library | Junior fiction | 1271 |
| Cambridge Central Library | Adult fiction paperback | 1137 |
| St Ives Library | Adult fiction paperback | 963 |
| Cambourne Library | Junior fiction | 937 |
| Cambridge Central Library | Adult non fiction paperback | 935 |
| Cambridgeshire Libraries | Junior non-fiction | 902 |
| St Ives Library | Junior fiction | 886 |
| Arbury Court Library | Junior fiction | 870 |
| St Neots Library | Adult fiction paperback | 856 |
| Cambridgeshire Libraries | Adult fiction hardback | 854 |

Result 21 x

Identifying the types of loan for the library
“Cambridgeshire Libraries” as it is the library
with highest number of loans

```
173 • select `Type`, SUM(Loans) as loan_type_num
174 from library5
175 where Library='Cambridgeshire Libraries'
176 group by Library, `Type`
177 order by loan_type_num desc;
```

Result Grid | Filter Rows: | Export:

| Type | loan_type_num |
|------------------------------|---------------|
| Adult non fiction paperback | 1342 |
| Junior non-fiction | 902 |
| Adult fiction hardback | 854 |
| Adult non fiction hardback | 698 |
| Junior fiction | 447 |
| Teenage | 259 |
| Adult fiction | 189 |
| Adult fiction paperback | 188 |
| Adult non-fiction | 125 |
| Young adult | 107 |
| Children's spoken word CD... | 95 |
| Children's fiction | 89 |

CROSS-FILE ANALYSIS

- Total Attendees of library common in library2 and library4
- Comparing visits (library3) with loans (library5) to understand visit-to-loan pattern
- Compare trends in attendees (library2), visits (library3), and loans (library5) over time to identify patterns.

Before trying to do joining operations, we have to have a look to the field names and field values

.85 • `SELECT DISTINCT Library FROM library2;`

| Library |
|-------------------|
| Arbury Court |
| Bar Hill |
| Barnwell Road |
| Buckden |
| Burwell |
| Cambourne |
| Cambridge Central |
| Chatteris |
| Cherry Hinton |
| Comberton |
| Cottenham |
| Ely |

187 • `SELECT DISTINCT `Library Name` FROM library4;`

| Library Name |
|-----------------------------|
| Arbury Court Library |
| Bar Hill Library |
| Barnwell Road Library |
| Bassingbourn Book Café |
| Bottisham Community Library |
| Brampton Community Library |
| Buckden Library |
| Burwell Library |
| Cambourne Library |
| Cambridge Central Library |
| Chatteris Library |
| Cherry Hinton Library |

Field name difference and field value difference noticed,
so modify queries accordingly

Total Attendees of library common in library2 and library4

```
189 • SELECT 12.Library, 12.Attendees
190 FROM library2 12
191 JOIN library4 14
192 ON TRIM(12.Library) = TRIM(REPLACE(14.`Library Name`, 'Library', ''))
193 ORDER BY 12.Attendees DESC;
```

Result Grid |  Filter Rows: | Export:  Wrap Cell Content:  Fetch rows:

| Library | Attendees |
|-------------------|-----------|
| March | 782 |
| Wisbech | 723 |
| Wisbech | 616 |
| St Neots | 510 |
| Wisbech | 468 |
| St Ives | 428 |
| Bar Hill | 411 |
| Barnwell Road | 411 |
| Milton Road | 408 |
| Arbury Court | 403 |
| Cambridge Central | 403 |
| Ely | 400 |

Comparing visits (library3) with loans (library5) to understand visit-to-loan pattern

```
203 • SELECT
204     l3.Library,
205     SUM(l3.Visits) AS Total_Visits,
206     SUM(l5.Loans) AS Total_Loans
207 FROM
208     library3 l3
209 JOIN
210     library5 l5
211 ON TRIM(l3.Library) = TRIM(REPLACE(l5.Library, ' Library', ''))
212 GROUP BY
213     l3.Library
214 ORDER BY
215     Total_Visits DESC;
216
```

| Library | Total_Visits | Total_Loans |
|-------------------|--------------|-------------|
| Cambridge Central | 81158458 | 4741 |
| Huntingdon | 18314670 | 2817 |
| Ely | 15214725 | 3674 |
| St Ives | 12796598 | 3416 |
| St Neots | 9309144 | 3209 |

```
13 • SELECT
14     l3.Library,
15     SUM(l3.Visits) AS Total_Visits,
16     SUM(l5.Loans) AS Total_Loans
17 FROM
18     library3 l3
19 JOIN
20     library5 l5
21 ON TRIM(l3.Library) = TRIM(REPLACE(l5.Library, ' Library', ''))
22 GROUP BY
23     l3.Library
24 ORDER BY
25     Total_Loans DESC;
26
```

| Library | Total_Visits | Total_Loans |
|-------------------|--------------|-------------|
| Cambridge Central | 81158458 | 4741 |
| Ely | 15214725 | 3674 |
| St Ives | 12796598 | 3416 |
| St Neots | 9309144 | 3209 |
| Huntingdon | 18314670 | 2817 |

“Cambridge Central” has highest total visits and total loans

Compare trends in attendees (library2), visits (library3), and loans (library5) over time to identify patterns.

```

8 • select l2.Library, sum(l2.Attendees) as Total_attendees, sum(l3.visits) as Total_visits, sum(l5.Loans) as Total_loans
9 from library2 l2
10 join library3 l3 on l2.Library = l3.Library
11 join library5 l5 on replace(l5.Library, ' Library', '') = l2.Library
12 group by l2.Library
13 order by Total_attendees desc;
14
15
16
17

```

Result Grid |   Filter Rows: | Export:  | Wrap Cell Content: 

| Library | Total_attendees | Total_visits | Total_loans |
|-------------------|-----------------|--------------|-------------|
| Cambridge Central | 1919262 | 85135222442 | 4973309 |
| St Ives | 565011 | 4581182084 | 1222928 |
| St Neots | 449956 | 4440461688 | 1530693 |
| Ely | 407265 | 7972515900 | 1925176 |

```

58 • select 12.Library, sum(12.Attendees) as Total_attendees, sum(13.visits) as Total_visits, sum(15.Loans) as Total_loans
59 from library2 12
60 join library3 13 on 12.Library = 13.Library
61 join library5 15 on replace(15.Library, ' Library', '') = 12.Library
62 group by 12.Library
63 order by Total_loans desc;
64
65
66
67

```

Result Grid |   Filter Rows: | Export:  | Wrap Cell Content: 

| Library | Total_attendees | Total_visits | Total_loans |
|-------------------|-----------------|--------------|-------------|
| Cambridge Central | 1919262 | 85135222442 | 4973309 |
| Ely | 407265 | 7972515900 | 1925176 |
| St Neots | 449956 | 4440461688 | 1530693 |
| Huntingdon | 353286 | 9303852360 | 1431036 |
| St Ives | 565011 | 4581182084 | 1222928 |


```

58 • select 12.Library, sum(12.Attendees) as Total_attendees, sum(13.visits) as Total_visits, sum(15.Loans) as Total_loans
59 from library2 12
60 join library3 13 on 12.Library = 13.Library
61 join library5 15 on replace(15.Library, ' Library', '') = 12.Library
62 group by 12.Library
63 order by Total_visits desc;

```

Result Grid |   Filter Rows: | Export:  | Wrap Cell Content: 

| Library | Total_attendees | Total_visits | Total_loans |
|-------------------|-----------------|--------------|-------------|
| Cambridge Central | 1919262 | 85135222442 | 4973309 |
| Huntingdon | 353286 | 9303852360 | 1431036 |
| Ely | 407265 | 7972515900 | 1925176 |
| March | 312510 | 5173454825 | 1170147 |
| St Ives | 565011 | 4581182084 | 1222928 |

‘Cambridge central has the greatest value for the 3 fields analysed’

IMPORTANT TAKE-AWAYS FROM ANALYSIS

- Main Location with highest stop count: Cambridge (count 11)
- Libraries count 32 (data is about only one local authority-Cambridgeshire)
- Cambridgeshire local authority had 105299 attendees
- The type of visits to preference are Manual/electric-30, Electronic Counter-6, Thermal Imaging-1
- There are two types of library- Local Authority Service-34 & Community Library-6
- 2010 is the year with maximum number of libraries (12) opened and no libraries have been closed.
- Most of the libraries are co-located with 'Community Centre'
- Maximum number of loans is for "2020-01"-31092
- Cambridgeshire Collection has the least loan total number
- The type-"Junior fiction" is the most loan type
- The highest types of loan for the library "Cambridgeshire Libraries"-Adult non fiction paperback
- 'Cambridge central' has the greatest value for the 3 fields(that are - visits, attendees, loans) analysed and visitors prefer Thermal Imaging

THANK YOU!

work by Neha Mahanand