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Tutorial 1 screenshots

2) Write and execute the following queries against the HMIS.db database: a. Count the number of hospital entities.

b. Count the instances of hospital entities in each state.

c. Count the instances of HMIS applications by application.

d. List the instances of status categories for the HMIS applications by HMIS application.

e. List the HMIS applications by city for hospitals in Massachusetts (MA).

Answers :

Reading the file :

Observations : took some time to read

```
SQLite version 3.40.1 2022-12-28 14:03:47
Enter ".help" for usage hints.
Connected to a transient in-memory database.
Use ".open FILENAME" to reopen on a persistent database.
sqlite> .read CREATEDBHMIS.sql

.mode list
.separator " | "

.output HMIS_out.txt
.echo OFF
```

Proof of creation :

```
sqlite> .tables
LEADS
sqlite> SELECT COUNT(*) FROM pragma_table_info('LEADS');
8
sqlite> PRAGMA table_info(LEADS);
0 | Lead_Key | INTEGER | 0 | | 1
1 | Entity_No | INTEGER | 0 | | 0
2 | Name | VARCHAR(50) | 0 | | 0
3 | City | VARCHAR(30) | 0 | | 0
4 | State | CHAR(2) | 0 | | 0
5 | Zip | CHAR(5) | 0 | | 0
6 | Application | VARCHAR(40) | 0 | | 0
7 | Status | VARCHAR(20) | 0 | | 0
```

a)

```
sqlite> SELECT COUNT((Entity_No)) from LEADS;
20539
sqlite> SELECT COUNT(DISTINCT(Entity_No)) from LEADS;
4003
sqlite>
```

b)

```

sqlite> select State,count(name) from LEADS group by State order by State;
AK | 53
AL | 424
AR | 299
AZ | 291
CA | 1757
CN | 5
CO | 288
CT | 152
DC | 41
DE | 40
FL | 1069
GA | 620
HI | 120
IA | 374
ID | 124
IL | 843
IN | 525
KS | 344
KY | 460
LA | 559
MA | 397
MD | 222
ME | 140
MI | 561
MN | 493
MO | 475
MS | 290
MT | 103
NC | 547
ND | 126
NE | 170
NH | 92
NJ | 424
NM | 181
NV | 120
NY | 1043
OH | 806
OK | 394
OR | 237
PA | 926
PR | 20
RI | 56
SC | 292
SD | 209
TN | 660
TX | 1477
UT | 175
VA | 397
VT | 37
WA | 290
WI | 524
WV | 192
WY | 75
sqlite>

```

c)

```

sqlite> SELECT Application, COUNT(Application) FROM LEADS GROUP BY Application ORDER BY Application;
Computerized Practitioner Order Entry (CPOE) | 4159
Electronic Data Interchange (EDI) - Clearing House Vendor | 4036
Enterprise EMR | 4187
Enterprise Resource Planning | 4051
Executive Information System | 4106
sqlite>

```

d)

```

sqlite> SELECT Application, Status, COUNT(Status) from LEADS GROUP BY Application, Status ORDER BY Application, Status;
Computerized Practitioner Order Entry (CPOE) | Contracted/Not Yet Installed | 659
Computerized Practitioner Order Entry (CPOE) | Installation in Process | 122
Computerized Practitioner Order Entry (CPOE) | Live and Operational | 638
Computerized Practitioner Order Entry (CPOE) | Not Automated | 2544
Computerized Practitioner Order Entry (CPOE) | Not Reported | 39
Computerized Practitioner Order Entry (CPOE) | Not Yet Contracted | 119
Computerized Practitioner Order Entry (CPOE) | To be Replaced | 38
Electronic Data Interchange (EDI) - Clearing House Vendor | Contracted/Not Yet Installed | 36
Electronic Data Interchange (EDI) - Clearing House Vendor | Installation in Process | 18
Electronic Data Interchange (EDI) - Clearing House Vendor | Live and Operational | 1194
Electronic Data Interchange (EDI) - Clearing House Vendor | Not Automated | 2240
Electronic Data Interchange (EDI) - Clearing House Vendor | Not Reported | 527
Electronic Data Interchange (EDI) - Clearing House Vendor | Not Yet Contracted | 7
Electronic Data Interchange (EDI) - Clearing House Vendor | To be Replaced | 22
Enterprise EMR | Contracted/Not Yet Installed | 258
Enterprise EMR | Installation in Process | 54
Enterprise EMR | Live and Operational | 1948
Enterprise EMR | Not Automated | 1716
Enterprise EMR | Not Reported | 40
Enterprise EMR | Not Yet Contracted | 48
Enterprise EMR | To be Replaced | 123
Enterprise Resource Planning | Contracted/Not Yet Installed | 83
Enterprise Resource Planning | Installation in Process | 15
Enterprise Resource Planning | Live and Operational | 705
Enterprise Resource Planning | Not Automated | 3149
Enterprise Resource Planning | Not Reported | 51
Enterprise Resource Planning | Not Yet Contracted | 4
Enterprise Resource Planning | To be Replaced | 44
Executive Information System | Contracted/Not Yet Installed | 82
Executive Information System | Installation in Process | 28
Executive Information System | Live and Operational | 2438
Executive Information System | Not Automated | 1392
Executive Information System | Not Reported | 67
Executive Information System | Not Yet Contracted | 15
Executive Information System | To be Replaced | 84
sqlite>

```

e)

```

sqlite> SELECT DISTINCT City, Name, Application from LEADS WHERE State = 'MA' GROUP BY City, Name, Application ORDER BY City, Name, Application;
Attleboro | Sturdy Memorial Hospital | Computerized Practitioner Order Entry (CPOE)
Attleboro | Sturdy Memorial Hospital | Electronic Data Interchange (EDI) - Clearing House Vendor
Attleboro | Sturdy Memorial Hospital | Enterprise EMR
Attleboro | Sturdy Memorial Hospital | Enterprise Resource Planning
Attleboro | Sturdy Memorial Hospital | Executive Information System
Ayer | Nashoba Valley Medical Center | Computerized Practitioner Order Entry (CPOE)
Ayer | Nashoba Valley Medical Center | Electronic Data Interchange (EDI) - Clearing House Vendor
Ayer | Nashoba Valley Medical Center | Enterprise EMR
Ayer | Nashoba Valley Medical Center | Enterprise Resource Planning
Ayer | Nashoba Valley Medical Center | Executive Information System
Beverly | Beverly Hospital Corporation | Computerized Practitioner Order Entry (CPOE)
Beverly | Beverly Hospital Corporation | Electronic Data Interchange (EDI) - Clearing House Vendor
Beverly | Beverly Hospital Corporation | Enterprise EMR
Beverly | Beverly Hospital Corporation | Enterprise Resource Planning
Beverly | Beverly Hospital Corporation | Executive Information System

```

```

C:\SQLite\SQL\sqlite3.exe
Boston | Beth Israel Deaconess Medical Center | Computerized Practitioner Order Entry (CPOE)
Boston | Beth Israel Deaconess Medical Center | Electronic Data Interchange (EDI) - Clearing House Vendor
Boston | Beth Israel Deaconess Medical Center | Enterprise EMR
Boston | Beth Israel Deaconess Medical Center | Enterprise Resource Planning
Boston | Beth Israel Deaconess Medical Center | Executive Information System
Boston | Boston Medical Center | Computerized Practitioner Order Entry (CPOE)
Boston | Boston Medical Center | Electronic Data Interchange (EDI) - Clearing House Vendor
Boston | Boston Medical Center | Enterprise EMR
Boston | Boston Medical Center | Enterprise Resource Planning
Boston | Boston Medical Center | Executive Information System
Boston | Boston Shriners Hospital | Computerized Practitioner Order Entry (CPOE)
Boston | Boston Shriners Hospital | Electronic Data Interchange (EDI) - Clearing House Vendor
Boston | Boston Shriners Hospital | Enterprise EMR
Boston | Boston Shriners Hospital | Enterprise Resource Planning
Boston | Boston Shriners Hospital | Executive Information System
Boston | Brigham & Women Hospital | Computerized Practitioner Order Entry (CPOE)
Boston | Brigham & Women Hospital | Electronic Data Interchange (EDI) - Clearing House Vendor
Boston | Brigham & Women Hospital | Enterprise EMR
Boston | Brigham & Women Hospital | Enterprise Resource Planning
Boston | Brigham & Women Hospital | Executive Information System
Boston | Children Hospital Boston | Computerized Practitioner Order Entry (CPOE)
Boston | Children Hospital Boston | Electronic Data Interchange (EDI) - Clearing House Vendor
Boston | Children Hospital Boston | Enterprise EMR
Boston | Children Hospital Boston | Enterprise Resource Planning
Boston | Children Hospital Boston | Executive Information System
Boston | Kindred Hospital - Boston | Computerized Practitioner Order Entry (CPOE)
Boston | Kindred Hospital - Boston | Electronic Data Interchange (EDI) - Clearing House Vendor
Boston | Kindred Hospital - Boston | Enterprise EMR
Boston | Kindred Hospital - Boston | Enterprise Resource Planning
Boston | Kindred Hospital - Boston | Executive Information System
Boston | Massachusetts General Hospital | Computerized Practitioner Order Entry (CPOE)
Boston | Massachusetts General Hospital | Electronic Data Interchange (EDI) - Clearing House Vendor
Boston | Massachusetts General Hospital | Enterprise EMR
Boston | Massachusetts General Hospital | Enterprise Resource Planning
Boston | Massachusetts General Hospital | Executive Information System
Boston | New England Baptist Hospital | Computerized Practitioner Order Entry (CPOE)
Boston | New England Baptist Hospital | Electronic Data Interchange (EDI) - Clearing House Vendor
Boston | New England Baptist Hospital | Enterprise EMR
Boston | New England Baptist Hospital | Enterprise Resource Planning
Boston | New England Baptist Hospital | Executive Information System
Boston | St. Elizabeth Medical Center of Boston | Computerized Practitioner Order Entry (CPOE)
Boston | St. Elizabeth Medical Center of Boston | Electronic Data Interchange (EDI) - Clearing House Vendor
Boston | St. Elizabeth Medical Center of Boston | Enterprise EMR
Boston | St. Elizabeth Medical Center of Boston | Enterprise Resource Planning
Boston | St. Elizabeth Medical Center of Boston | Executive Information System
Boston | Tufts-New England Medical Center | Computerized Practitioner Order Entry (CPOE)
Boston | Tufts-New England Medical Center | Electronic Data Interchange (EDI) - Clearing House Vendor
Boston | Tufts-New England Medical Center | Enterprise EMR

```

```

sqlite> SELECT DISTINCT City, COUNT(Application)
...>          FROM LEADS
...>          WHERE State = "MA"
...>          GROUP BY City
...>          ORDER BY City;

```

```

Attleboro | 5
Ayer | 5
Beverly | 5
Boston | 54
Brockton | 10
Burlington | 5
Cambridge | 10
Clinton | 5
Concord | 5
Dorchester | 5
Everett | 5
Fall River | 10
Falmouth | 5
Fitchburg | 5
Framingham | 5
Gardner | 5
Gloucester | 5
Great Barrington | 5
Greenfield | 5
Haverhill | 5
Holyoke | 5
Hyannis | 5
Jamaica Plain | 10
Lawrence | 5
Leominster | 5
Lowell | 12
Lynn | 5
Marlborough | 5
Medford | 5
Melrose | 5
Methuen | 5
Milford | 5
Milton | 5
Natick | 5
Needham | 5
New Bedford | 5
Newburyport | 6
Newton | 5
North Adams | 5
Northampton | 5
Norwood | 5
Palmer | 5
Peabody | 10
Pittsfield | 5
Plymouth | 5
Quincy | 5
Salem | 10
Somerville | 5
South Weymouth | 5
Southbridge | 5
Springfield | 15

```

```

Somerville | 5
South Weymouth | 5
Southbridge | 5
Springfield | 15
Stoughton | 5
Taunton | 5
Ware | 5
Wareham | 5
Webster | 5
Winchester | 5
Worcester | 15
sqlite>

```