

## Tutorial 2 : MIS-502

On Lead\_Key

```
C:\SQLite\SQL\sqlite3.exe
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> .open HMIS.DB
sqlite> .SCHEMA
Error: unknown command or invalid arguments: "SCHEMA". Enter ".help" for help
sqlite> .schema
CREATE TABLE IF NOT EXISTS "LEADS" (
    "Lead_Key"      INTEGER CONSTRAINT lead_key_pk PRIMARY KEY,
    "Entity_No"     INTEGER,
    "Name"          VARCHAR(50),
    "City"          VARCHAR(30),
    "State"         CHAR(2),
    "Zip"           CHAR(5),
    "Application"   VARCHAR(40),
    "Status"        VARCHAR(20)
);
sqlite> select count(Distinct Lead_Key) From Leads;
20539
sqlite> select MIN(Lead_Key) From Leads;
1
sqlite> select MAX(Lead_Key) From Leads;
20539
```

On Entity :

```
C:\SQLite\SQL\sqlite3.exe  X  +  v
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> .schema
sqlite> .open HMIS.db
sqlite> .schema
CREATE TABLE IF NOT EXISTS "LEADS" (
  "Lead_Key"      INTEGER CONSTRAINT lead_key_pk PRIMARY KEY,
  "Entity_No"     INTEGER,
  "Name"          VARCHAR(50),
  "City"          VARCHAR(30),
  "State"         CHAR(2),
  "Zip"           CHAR(5),
  "Application"   VARCHAR(40),
  "Status"        VARCHAR(20)
);
sqlite> select count(Distinct(Entity_No)) from LEADS;
4003
sqlite> select MIN(Entity_No) from LEADS;
2
sqlite> select Max(Entity_No) from LEADS;
100063557
sqlite> select Entity_no FROM LEADS where Lead_Key = 10269 OR Lead_Key=10270;
20297
20297
```

```

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> .open HMIS.db
sqlite> select Entity_No, Entries
...> from (SELECT Entity_No, COUNT(Entity_No) AS Entries From LEADS
...> GROUP BY Entity_No
...> Having Entries > 5
...> ORDER BY Entries Desc)
...> ORDER BY Entries Desc;
100055263|9
42056|9
22161|9
2621|9
2619|9
27892|8
22695|8
21839|8
6693|8
5286|8
1213|8
834|8
831|8
100062699|7
100062351|7
100060110|7
100059165|7
100058511|7
100055264|7
100053622|7
100045860|7
1005066|7
1004356|7
1003442|7
100224|7
42235|7
38745|7
35864|7
35145|7

```

On Name :

```

sqlite> .schema
CREATE TABLE IF NOT EXISTS "LEADS" (
  "Lead_Key"      INTEGER CONSTRAINT lead_key_pk PRIMARY KEY,
  "Entity_No"     INTEGER,
  "Name"          VARCHAR(50),
  "City"          VARCHAR(30),
  "State"         CHAR(2),
  "Zip"           CHAR(5),
  "Application"   VARCHAR(40),
  "Status"        VARCHAR(20)
);
sqlite> select count(name) from LEADS;
20539
sqlite> select count(distinct name) from LEADS;
3743
sqlite> select count(name) from LEADS where name is not null;
20539
sqlite> select min(entries), max(entries), count(entries)
...> from (select name,count(name) as Entries from Leads group by Name);
5|112|3743

```

```

sqlite> select name, count(name) from LEADS
...> GROUP BY Name
...> ORDER BY count(Name) DESC
...> LIMIT 10;
St. Joseph Hospital|112
St. Mary Hospital|87
Mercy Medical Center|55
Memorial Hospital|51
St. Francis Hospital|50
St. Mary Medical Center|45
St. Luke Hospital|45
St. Francis Medical Center|40
Community Memorial Hospital|40
University Hospital|37
sqlite> |

```

```

error here ---^
sqlite> select count(Entries)
...> from (select name, count(name) as Entries
...> from LEADS
...> group by name
...> having entries <=11);
3699
sqlite>

```

On City :

```

sqlite> select count(distinct city) from LEADS;
2255
sqlite> select count(city) from LEADS where City is not null;
20539
sqlite> select MIN(Entries), MAX(Entries), count(Entries)
...> from ( select City, Count(City) as Entries
...> from LEADS
...> group by City);
5|176|2255

```

```

sqlite> select count(Entries)
...> from (select City,count(city) as Entries
...> from LEADS
...> group by City
...> having Entries <=11);
1965
sqlite>
sqlite> select city, count(city)
...> from LEADS
...> group by City
...> order by count(City) Desc
...> Limit 5;
Chicago|176
Houston|167
Philadelphia|140
Los Angeles|127
New York|116
sqlite>

```

On State :

```

sqlite> select count(distinct State) from LEADS;
53
sqlite> select count(State) from LEADS where State is not null;
20539
sqlite> select MIN(Entries), MAX(Entries), count(Entries)
...> from ( select State, Count(State) as Entries
...> from LEADS
...> group by State);
5|1757|53
sqlite>
sqlite> select State, count(State) from LEADS group by State limit 5;
AK|53
AL|424
AR|299
AZ|291
CA|1757
sqlite> select State, count(State) from LEADS group by State order by count(State) limit 5;
CN|5
PR|20
VT|37
DE|40
DC|41
sqlite> select State, count(State) from LEADS group by State order by count(State) DESC limit 5;
CA|1757
TX|1477
FL|1069
NY|1043
PA|926
sqlite>

```

On Zip :

```

sqlite> select count(distinct Zip) from LEADS;
3556
sqlite> select count(Zip) from LEADS where Zip is not null;
20539
sqlite> select MIN(Entries), MAX(Entries), count(Entries)
...> from ( select Zip, Count(Zip) as Entries
...> from LEADS
...> group by Zip);
5|53|3556
sqlite>
sqlite> select Zip, count(Zip) from LEADS group by Zip order by count(Zip) ASC limit 5;
10011|5
10034|5
10035|5
10037|5
10305|5
sqlite> select Zip, count(Zip) from LEADS group by Zip order by count(Zip) Desc limit 5;
77030|53
78229|44
75235|37
40202|33
76104|30
sqlite>

```

On Application :

```

sqlite> select count(distinct Application) from LEADS;
5
sqlite> select distinct Application from LEADS;
Computerized Practitioner Order Entry (CPOE)
Electronic Data Interchange (EDI) - Clearing House Vendor
Enterprise EMR
Enterprise Resource Planning
Executive Information System
sqlite>
sqlite> select distinct Application from LEADS order by Application;
Computerized Practitioner Order Entry (CPOE)
Electronic Data Interchange (EDI) - Clearing House Vendor
Enterprise EMR
Enterprise Resource Planning
Executive Information System
sqlite>
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>
sqlite> |

```

On Status :

```
C:\SQLite\SQL\sqlite.exe
sqlite> select count(distinct Status) from LEADS;
7
sqlite> select count(status) from LEADS where Status is not null;
20539
sqlite> select Status, count(Status)
...> from LEADS
...> group by Status
...> order by Status;
Contracted/Not Yet Installed|1118
Installation in Process|229
Live and Operational|6923
Not Automated|11041
Not Reported|724
Not Yet Contracted|193
To be Replaced|311
sqlite>
```