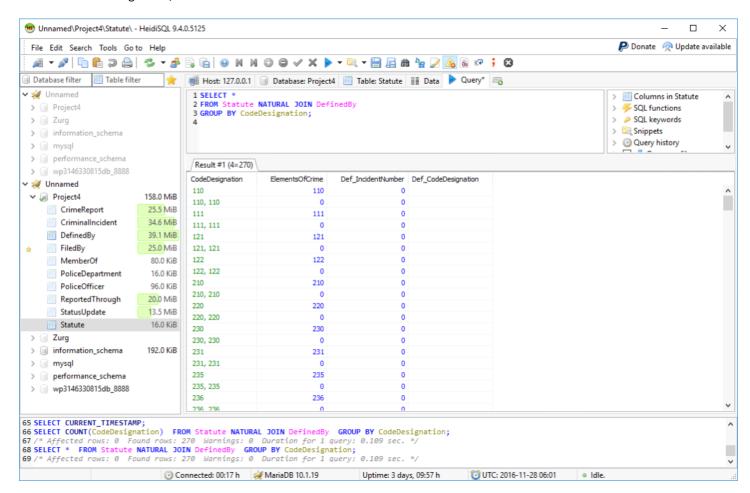
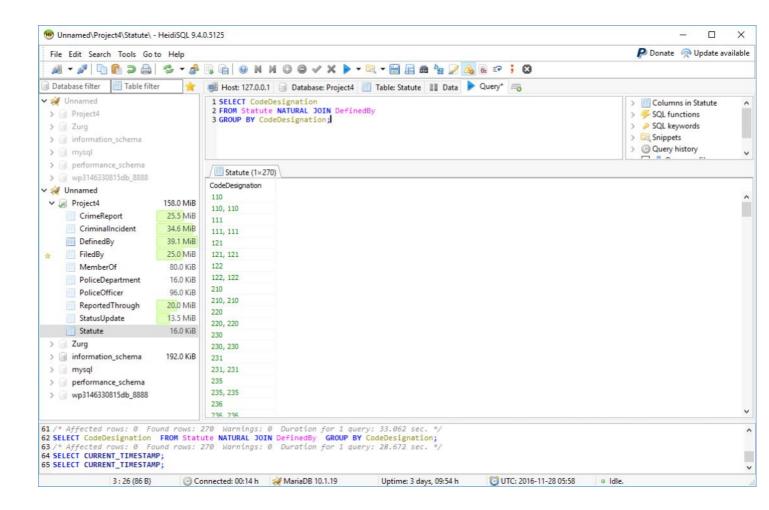
Interesting Queries

Tuesday, November 29, 2016 10:08 PM

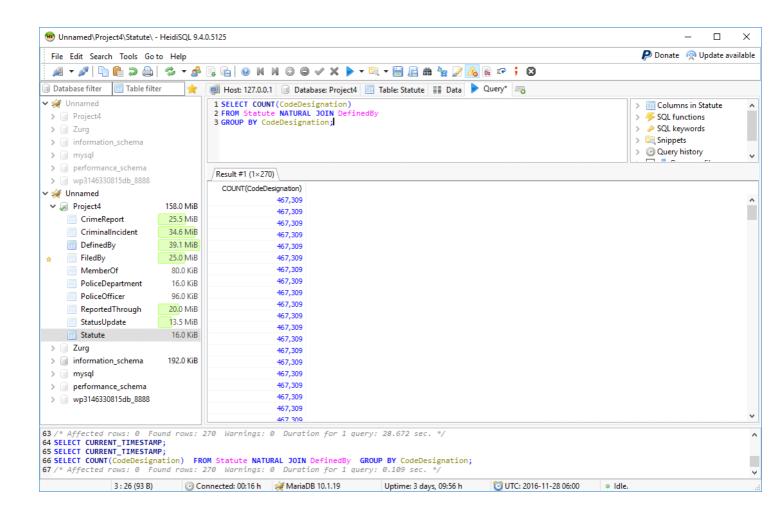
SELECT *
FROM Statute NATURAL JOIN DefinedBy
GROUP BY CodeDesignation;



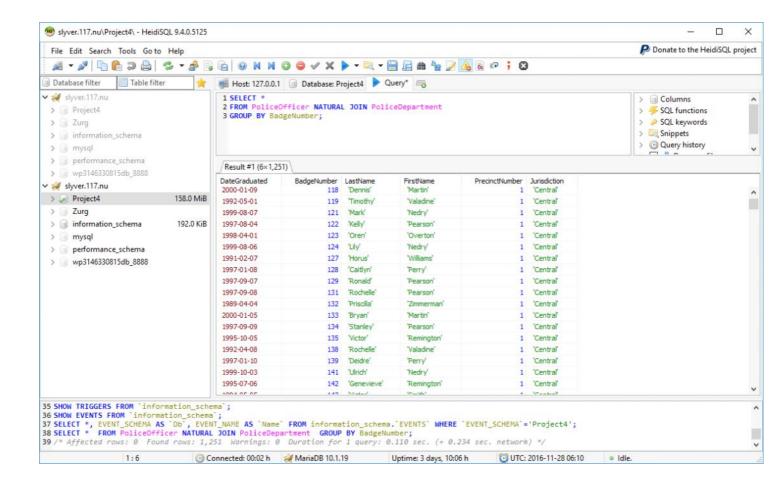
SELECT CodeDesignation FROM Statute NATURAL JOIN DefinedBy GROUP BY CodeDesignation;



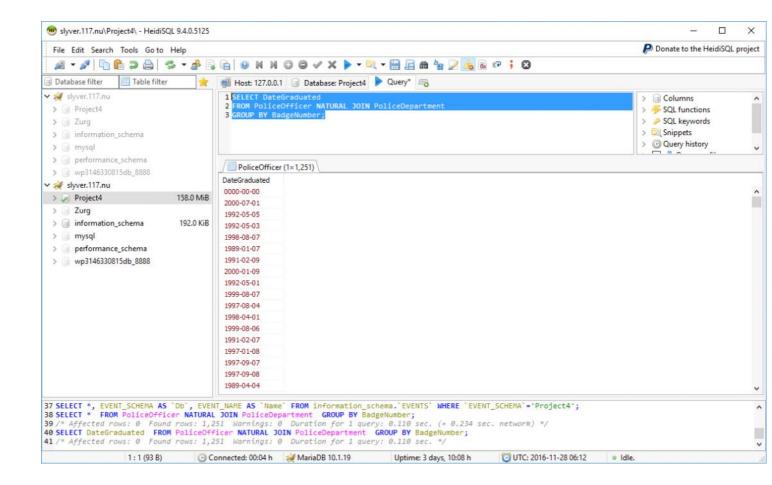
SELECT COUNT(CodeDesignation)
FROM Statute NATURAL JOIN DefinedBy
GROUP BY CodeDesignation;



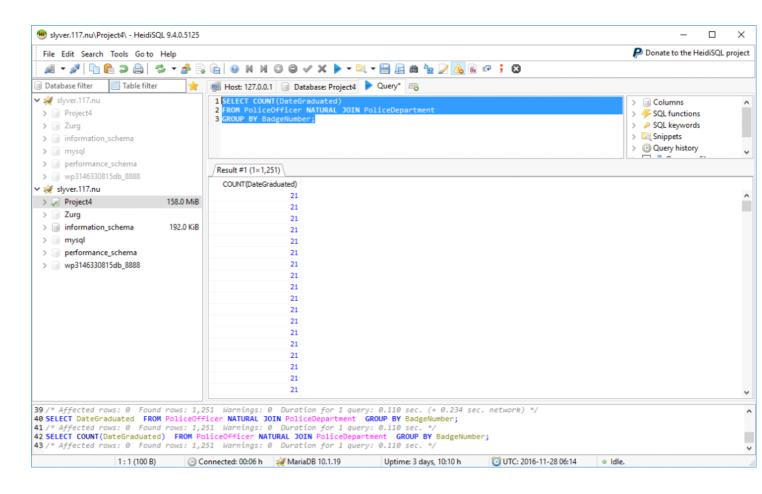
SELECT *
FROM PoliceOfficer NATURAL JOIN PoliceDepartment
GROUP BY BadgeNumber;



SELECT DateGraduated FROM PoliceOfficer NATURAL JOIN PoliceDepartment GROUP BY BadgeNumber;



SELECT COUNT(DateGraduated)
FROM PoliceOfficer NATURAL JOIN PoliceDepartment
GROUP BY BadgeNumber;



SELECT *
FROM PoliceOfficer NATURAL JOIN FiledBy NATURAL JOIN CrimeReport
GROUP BY BadgeNumber;

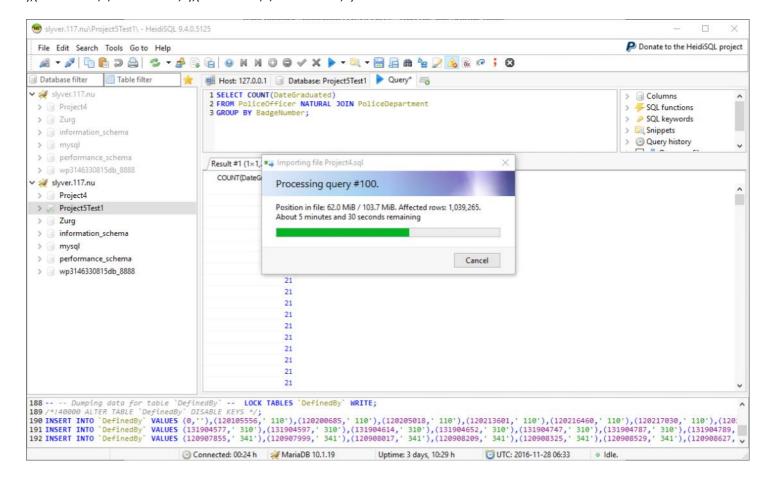
This goes on and on and on....

```
Slyver@slyver:~
                                                                                                           X
                                                 0.0%
                                                         Load average: 0.95 0.93 0.63
                                                 0.0%
      Uptime: 3 days, 10:15:13
                                                 0.0%
                                             0K/2.00G]
                                                    6:45.94 /usr/bin/python /usr/bin/deluged -d -l /var/log/deluge/da
14838 deluge
                            29264
                                   9700 S
                                          0.0
                                               0.1 0:11.19 lfd - sleeping
20446 root
                20
                       168M 24080
                                   2092 5 0.0
                    0 119M 2188
                                              0.0 0:02.87 htop
17352 slyver
                                  1460
                                          0.0
 927 mysql
                20
                                  11848
                                          0.0
                                               4.8 19:10.57 /usr/sbin/mysqld
                                               0.0 0:00.09 sshd: slyver@pts/0
16846 slyver
                      135M 2032
                                    828 5
                                          0.0
                20
                    0
                       144M 45424
                                               0.3 0:04.48 nginx: worker process
20787 nginx
                10
                                   1728 S 0.0
14899 deluge
                20
                       570M 29264
                                   9700
                                          0.0
                                               0.2
                                                    0:13.95
14842 deluge
                                               0.1 0:19.91 deluge-web
                20
                    0 243M 23324
                                   4364 S
                                          0.0
                    0 12140 6540
                                                   1:14.45 /usr/sbin/haveged -w 4067 -v 1 --Foreground
 429 root
                20
                                   724 5 0.0
                                               0.0
                20
                                   5560
                                          0.0
                                               0.1
                                                    0:17.12 /usr/bin/python -Es /usr/sbin/tuned -l -P
 442 root
                    0
                            16188
20785 nginx
                10
                       144M 44956
                                   1260 S
                                          0.0
                                               0.3
                                                   0:04.36 nginx: worker process
1119 mysql
                20
                    0 6528M
                             772M 11848 5 0.0
                                               4.8 0:19.36 /usr/sbin/mysql
1152 nobody
                20
                    0
                             3192
                                    640 S
                                          0.0
                                               0.0
                                                    0:40.35
                    0 6528M
                                  11848 S
                                          0.0
                                                    0:05.02
1118 mysql
                20
                                               4.8
1151 nobody
                20
                    0
                             3192
                                    640 S 0.0
                                              0.0 0:54.45 /usr/local/bin/memcached -d -m 8 -l 127.0.0.1 -p 11211 -c
                20
 425 root
                    0 19284
                             1196
                                    964 5 0.0
                                               0.0
                                                    0:11.40 /usr/sbin/irqbalance --foreground
                      540M 16188
                                  5560 S
                                                   0:17.00 /usr/bin/python -Es /usr/sbin/tuned -l -P
 931 root
                20
                    0
                                          0.0
                                              0.1
                    0 6528M 772M 11848 S 0.0 4.8 0:08.41 /usr/sbin/mysqld
1024 mysql
                20
1023 mysql
                    0 6528M
                20
                                  11848 S
                                          0.0
                                              4.8
                                                   0:08.39
                                                            +F9Kill
                                                                   F10Quit
```

Insert

INSERT INTO `StatusUpdate` VALUES

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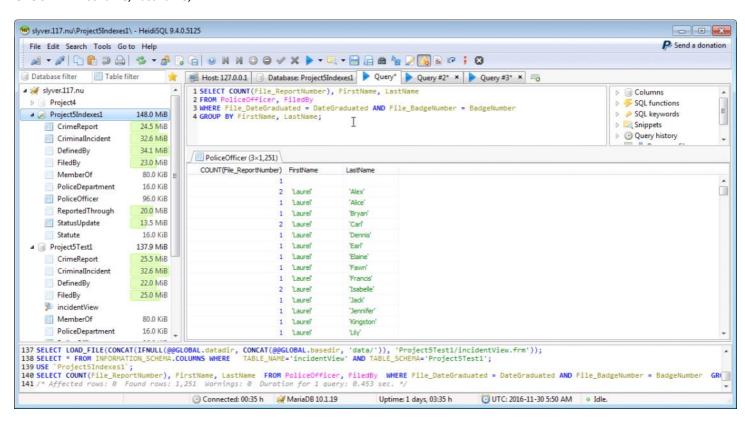


Even more:

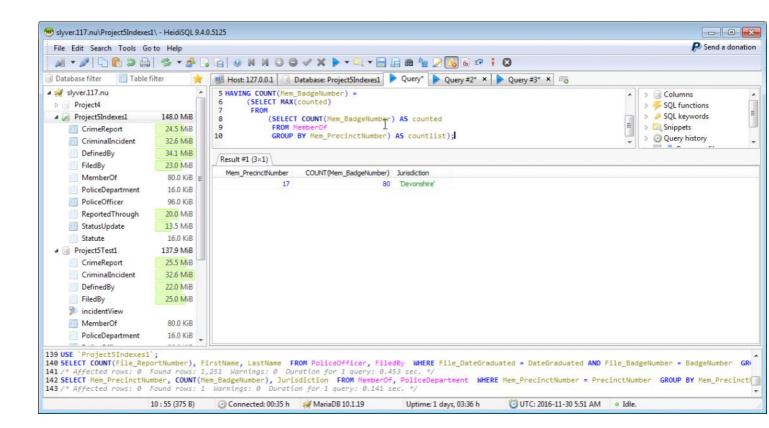
//The three search queries: count how many reports each officer has filed, find the jurisdiction with the most

//officers, and locate all reports filed by Precinct 7 police.

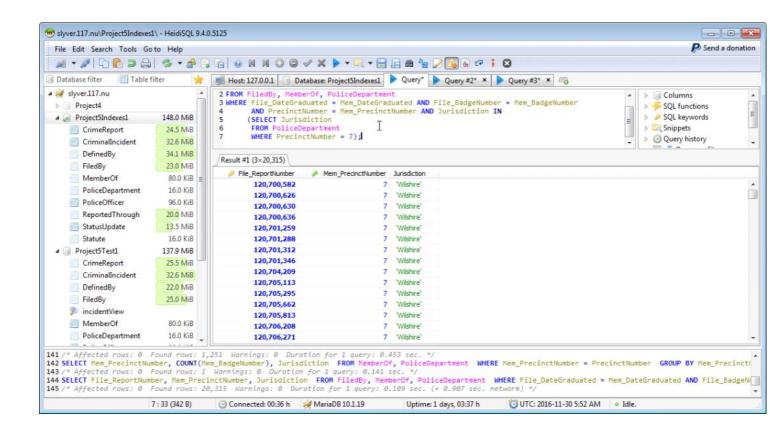
SELECT COUNT(File_ReportNumber), FirstName, LastName
FROM PoliceOfficer, FiledBy
WHERE File_DateGraduated = DateGraduated AND File_BadgeNumber = BadgeNumber
GROUP BY FirstName, LastName;



SELECT Mem_PrecinctNumber, COUNT(Mem_BadgeNumber), Jurisdiction
FROM MemberOf, PoliceDepartment
WHERE Mem_PrecinctNumber = PrecinctNumber
GROUP BY Mem_PrecinctNumber
HAVING COUNT(Mem_BadgeNumber) =
 (SELECT MAX(counted)
 FROM
 (SELECT COUNT(Mem_BadgeNumber) AS counted
 FROM MemberOf
 GROUP BY Mem_PrecinctNumber) AS countlist);



SELECT File_ReportNumber, Mem_PrecinctNumber, Jurisdiction
FROM FiledBy, MemberOf, PoliceDepartment
WHERE File_DateGraduated = Mem_DateGraduated AND File_BadgeNumber = Mem_BadgeNumber
AND PrecinctNumber = Mem_PrecinctNumber AND Jurisdiction IN
(SELECT Jurisdiction
FROM PoliceDepartment
WHERE PrecinctNumber = 7);

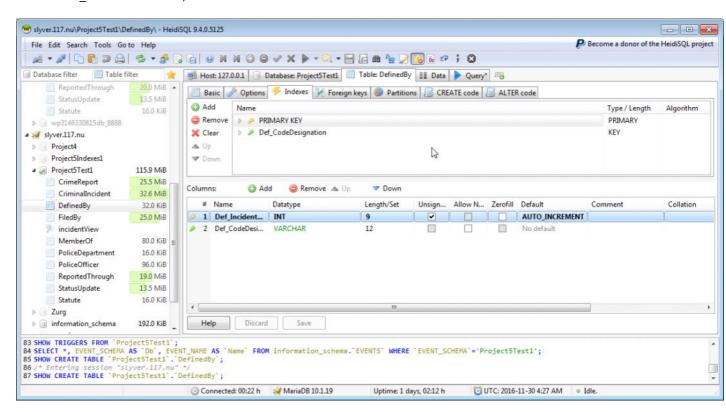


Alter Tables

Tuesday, November 29, 2016 10:25 PM

ALTER TABLE 'DefinedBy'

CHANGE COLUMN `Def_IncidentNumber` `Def_IncidentNumber` INT(9) UNSIGNED NOT NULL AUTO INCREMENT FIRST;



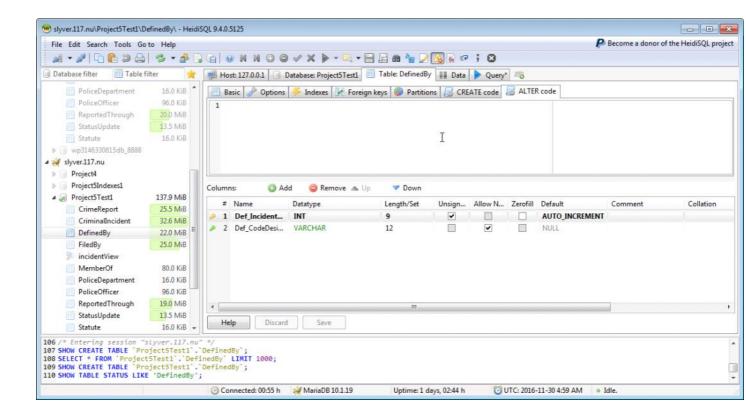
ALTER TABLE 'DefinedBy'

ALTER 'Def CodeDesignation' DROP DEFAULT;

ALTER TABLE 'DefinedBy'

CHANGE COLUMN `Def_IncidentNumber` `Def_IncidentNumber` INT(9) UNSIGNED NOT NULL AUTO INCREMENT FIRST,

CHANGE COLUMN `Def_CodeDesignation` `Def_CodeDesignation` VARCHAR(12) NULL AFTER `Def_IncidentNumber`;



ALTER TABLE 'Statute'

CHANGE COLUMN 'CodeDesignation' 'CodeDesignation' VARCHAR(12) NULL DEFAULT NULL ON UPDATE CURRENT_TIMESTAMP(12) FIRST;

ALTER TABLE 'Statute'

ALTER 'CodeDesignation' DROP DEFAULT,

ALTER 'ElementsOfCrime' DROP DEFAULT;

ALTER TABLE 'Statute'

CHANGE COLUMN `CodeDesignation` `CodeDesignation` VARCHAR(12) NOT NULL FIRST, CHANGE COLUMN `ElementsOfCrime` `ElementsOfCrime` INT(10) UNSIGNED NULL AFTER `CodeDesignation`;

Delete

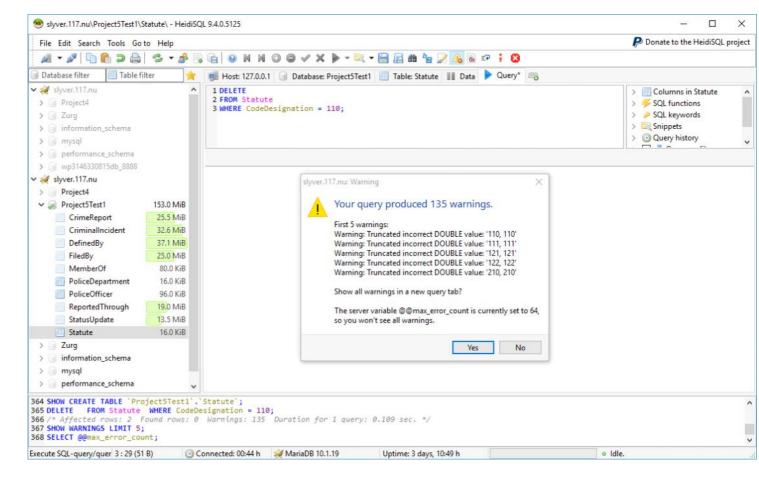
Tuesday, November 29, 2016 10:43 PM

DELETE

FROM Statute

WHERE CodeDesignation = 110;

/* Affected rows: 2 Found rows: 0 Warnings: 135 Duration for 1 query: 0.109 sec. */

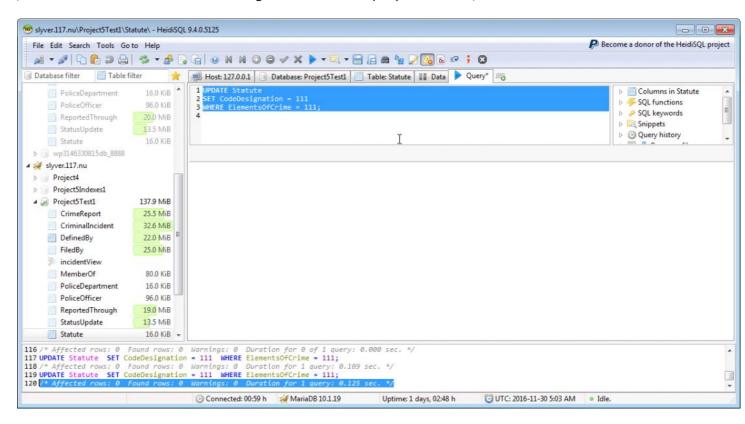


Update

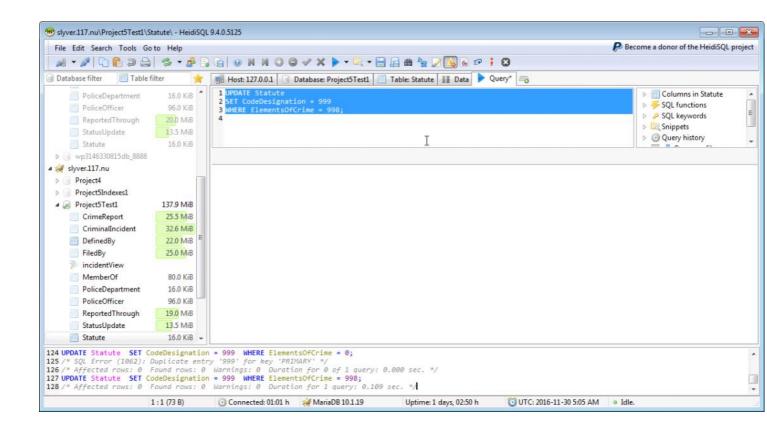
Tuesday, November 29, 2016 11:02 PM

UPDATE Statute
SET CodeDesignation = 111
WHERE ElementsOfCrime = 111;

/* Affected rows: 0 Found rows: 0 Warnings: 0 Duration for 1 query: 0.125 sec. */



UPDATE Statute
SET CodeDesignation = 999
WHERE ElementsOfCrime = 998;

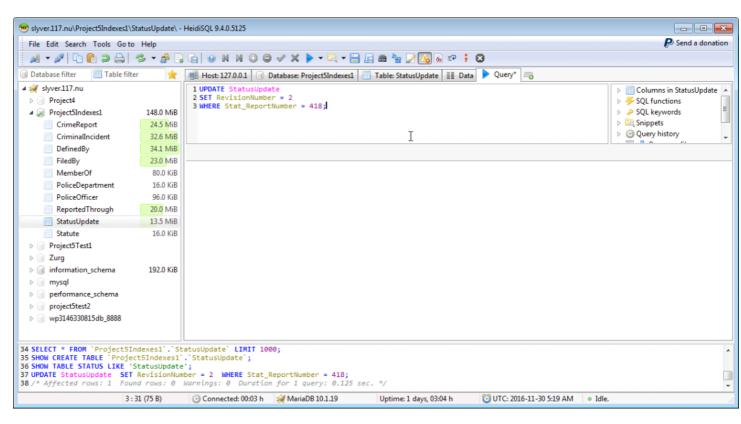


UPDATE StatusUpdate

SET RevisionNumber = 2

WHERE Stat_ReportNumber = 418;

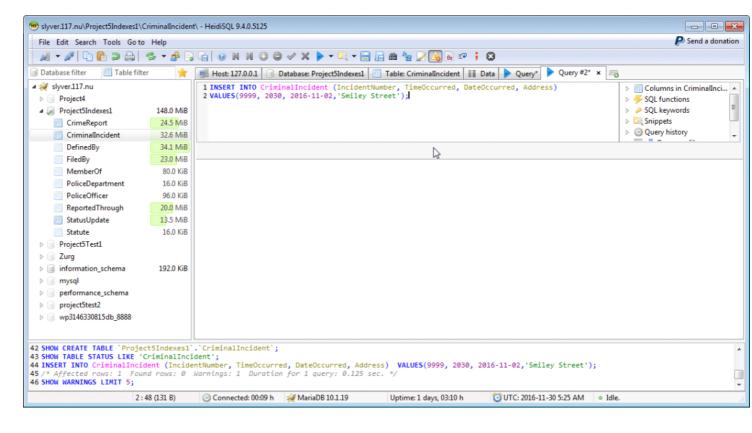
/* Affected rows: 1 Found rows: 0 Warnings: 0 Duration for 1 query: 0.125 sec. */



Insert

Tuesday, November 29, 2016 11:24 PM

INSERT INTO CriminalIncident (IncidentNumber, TimeOccurred, DateOccurred, Address) VALUES(9999, 2030, 2016-11-02, 'Smiley Street');



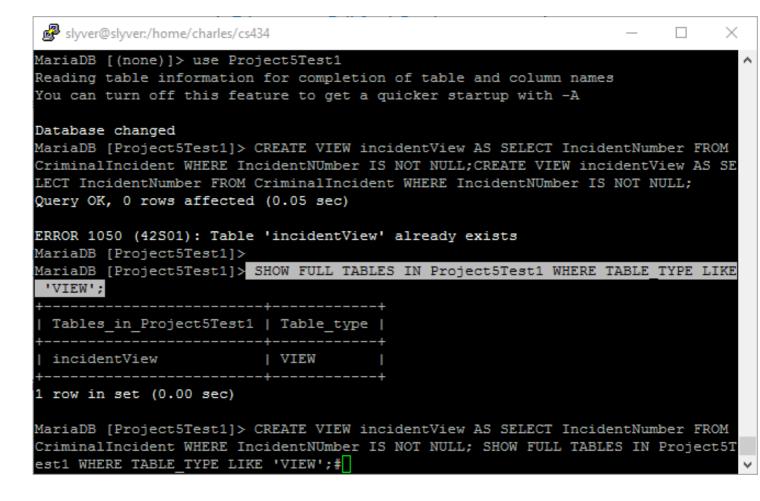
VIFW

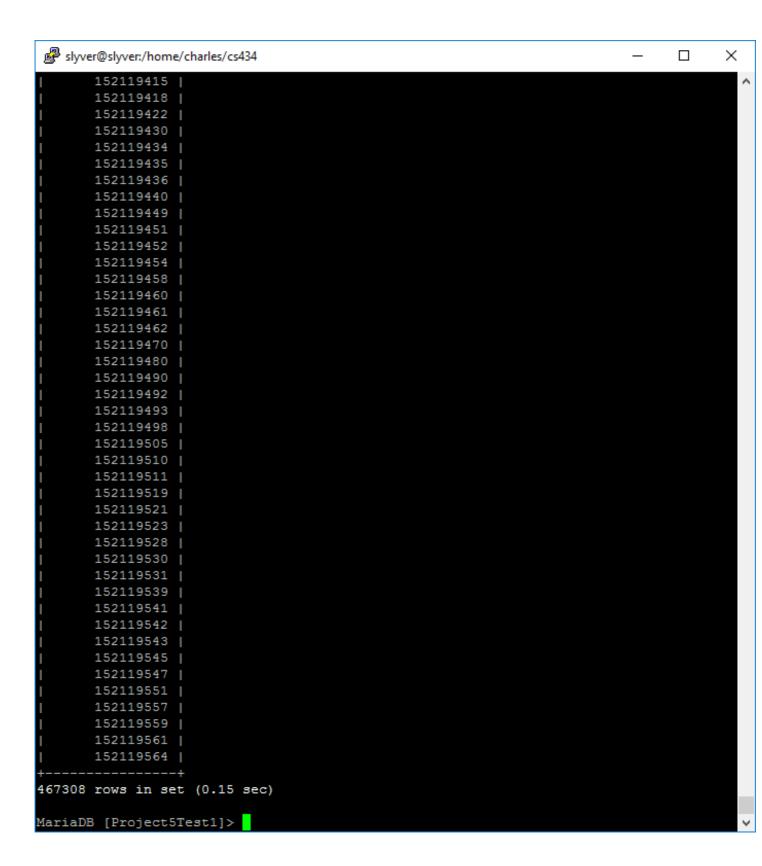
Tuesday, November 29, 2016 11:27 PM

CREATE VIEW incidentView AS SELECT IncidentNumber FROM CriminalIncident WHERE IncidentNUmber IS NOT NULL;

#works demonstrated by

SHOW FULL TABLES IN Project5Test1 WHERE TABLE_TYPE LIKE 'VIEW';





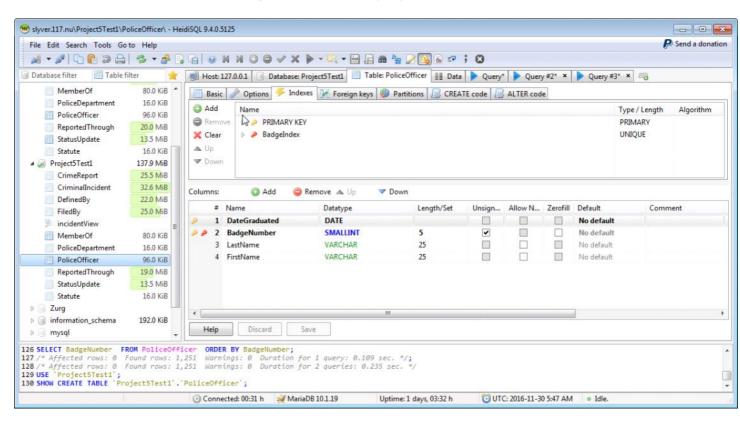
Index

Tuesday, November 29, 2016 11:30 PM

CREATE UNIQUE INDEX BadgeIndex

ON PoliceOfficer (BadgeNumber);

/* Affected rows: 0 Found rows: 0 Warnings: 0 Duration for 1 query: 0.281 sec. */



Without Index:

SELECT BadgeNumber

FROM PoliceOfficer

ORDER BY BadgeNumber;

/* Affected rows: 0 Found rows: 1,251 Warnings: 0 Duration for 2 queries: 0.235 sec. */

With Index:

SELECT BadgeNumber

FROM PoliceOfficer

ORDER BY BadgeNumber;

/* Affected rows: 0 Found rows: 1,251 Warnings: 0 Duration for 1 query: 0.109 sec. */

ER DIAGRAM

Tuesday, November 29, 2016 11:54 PM

Refer to Email for higher resolution.

