Karthikeyan Rajamani , University of Texas at Arlington

Table Name: BeaconLog

CREATE DATABASE `BeaconLog`;

Tables Present :

1. SensorTag

CREATE TABLE `SensorTag` (

`id` int(6) NOT NULL AUTO\_INCREMENT,

`DeviseName` varchar(30) NOT NULL,

`DeviseAddr` varchar(18) NOT NULL,

`DeviseRSSI` int(11) NOT NULL,

`TStamp` timestamp NOT NULL,

`url` varchar(50) NOT NULL,

PRIMARY KEY (`id`)

);

1. SensorTag\_Report

CREATE TABLE `SensorTag\_Report` (

`id` int(6) NOT NULL AUTO\_INCREMENT,

`DeviseName` varchar(30) DEFAULT NULL,

`DeviseRSSI` int(11) DEFAULT NULL,

`cnt` int(11) DEFAULT NULL,

PRIMARY KEY (`id`)

);

1. Temp

CREATE TABLE `Temp` (

`id` int(6) unsigned NOT NULL AUTO\_INCREMENT,

`DeviseName` varchar(30) NOT NULL,

`DeviseAddr` varchar(18) NOT NULL,

`DeviseRSSI` int(11) NOT NULL,

`TStamp` timestamp NOT NULL,

`url` varchar(50) NOT NULL,

PRIMARY KEY (`id`)

);

1. Store Procedures:

ReportGen:

CREATE DEFINER=`karthik`@`%` PROCEDURE `ReportGen`(

IN Stime varchar(100), IN Etime varchar(100)

)

BEGIN

SET SQL\_SAFE\_UPDATES=0;

truncate Temp;

insert into Temp(

DeviseName,DeviseAddr,DeviseRSSI,TStamp,url

)

(

select DeviseName,DeviseAddr,DeviseRSSI,TStamp,url

from SensorTag where TStamp between Stime and Etime

);

select \* from Temp order by Tstamp asc;

END

1. UpdateReport:

CREATE DEFINER=`karthik`@`%` PROCEDURE `UpdateReport`()

BEGIN

declare tagcount int(4);

SET SQL\_SAFE\_UPDATES=0;

set tagcount=(select count(\*) from SensorTag\_Report where DeviseName='ST001');

update SensorTag\_Report set cnt=tagcount where DeviseName='ST001';

set tagcount=(select count(\*) from SensorTag\_Report where DeviseName='ST002');

update SensorTag\_Report set cnt=tagcount where DeviseName='ST002';

set tagcount=(select count(\*) from SensorTag\_Report where DeviseName='ST003');

update SensorTag\_Report set cnt=tagcount where DeviseName='ST003';

set tagcount=(select count(\*) from SensorTag\_Report where DeviseName='ST004');

update SensorTag\_Report set cnt=tagcount where DeviseName='ST004';

set tagcount=(select count(\*) from SensorTag\_Report where DeviseName='ST005');

update SensorTag\_Report set cnt=tagcount where DeviseName='ST005';

set tagcount=(select count(\*) from SensorTag\_Report where DeviseName='ST006');

update SensorTag\_Report set cnt=tagcount where DeviseName='ST006';

set tagcount=(select count(\*) from SensorTag\_Report where DeviseName='ST009');

update SensorTag\_Report set cnt=tagcount where DeviseName='ST009';

set tagcount=(select count(\*) from SensorTag\_Report where DeviseName='ST010');

update SensorTag\_Report set cnt=tagcount where DeviseName='ST010';

END