Table Scripts

Device\_Tbl Script

CREATE TABLE `Device\_Tbl` (

`Device\_ID` int(11) NOT NULL AUTO\_INCREMENT,

`Device\_Name` varchar(45) NOT NULL,

`MAC\_Address` varchar(19) NOT NULL,

`Vehicle\_Make` varchar(45) NOT NULL,

`Vehicle\_Model` varchar(45) NOT NULL,

`Vehicle\_Registration\_Number` varchar(10) DEFAULT NULL,

`Vehicle\_Description` varchar(150) NOT NULL,

PRIMARY KEY (`Device\_ID`)

) ENGINE=InnoDB AUTO\_INCREMENT=3 DEFAULT CHARSET=utf8;

Geolocation\_Tbl Script

CREATE TABLE `Geolocation\_Tbl` (

`Device\_ID` int(11) NOT NULL AUTO\_INCREMENT,

`User\_ID` int(11) DEFAULT NULL,

`Date\_Time\_Recorded` datetime NOT NULL,

`Longitude` decimal(10,6) DEFAULT NULL,

`Latitude` decimal(10,6) DEFAULT NULL,

PRIMARY KEY (`Device\_ID`,`Date\_Time\_Recorded`),

KEY `fk\_Geolocation\_Tbl\_User\_Tbl1\_idx` (`User\_ID`),

CONSTRAINT `fk\_Geolocation\_Tbl\_Device\_Tbl1` FOREIGN KEY (`Device\_ID`) REFERENCES `Device\_Tbl` (`Device\_ID`) ON DELETE NO ACTION ON UPDATE NO ACTION,

CONSTRAINT `fk\_Geolocation\_Tbl\_User\_Tbl1` FOREIGN KEY (`User\_ID`) REFERENCES `User\_Tbl` (`User\_ID`) ON DELETE NO ACTION ON UPDATE NO ACTION

) ENGINE=InnoDB AUTO\_INCREMENT=9 DEFAULT CHARSET=utf8;

Role\_Tbl Script

CREATE TABLE `Role\_Tbl` (

`Role\_ID` int(11) NOT NULL AUTO\_INCREMENT,

`Role\_Name` varchar(45) NOT NULL,

`Role\_Description` varchar(45) DEFAULT NULL,

PRIMARY KEY (`Role\_ID`)

) ENGINE=InnoDB AUTO\_INCREMENT=2 DEFAULT CHARSET=utf8;

User\_Tbl Script

CREATE TABLE `User\_Tbl` (

`User\_ID` int(11) NOT NULL AUTO\_INCREMENT,

`Role\_ID` int(11) NOT NULL,

`First\_Name` varchar(20) DEFAULT NULL,

`Last\_Name` varchar(20) DEFAULT NULL,

`Address\_1` varchar(45) DEFAULT NULL,

`Address\_2` varchar(45) DEFAULT NULL,

`Address\_3` varchar(45) DEFAULT NULL,

`County` varchar(20) DEFAULT NULL,

`Contact\_No` varchar(20) DEFAULT NULL,

`Email` varchar(45) DEFAULT NULL,

PRIMARY KEY (`User\_ID`),

KEY `fk\_User\_Tbl\_Role\_Tbl\_idx` (`Role\_ID`),

CONSTRAINT `fk\_User\_Tbl\_Role\_Tbl` FOREIGN KEY (`Role\_ID`) REFERENCES `Role\_Tbl` (`Role\_ID`) ON DELETE NO ACTION ON UPDATE NO ACTION

) ENGINE=InnoDB AUTO\_INCREMENT=11 DEFAULT CHARSET=utf8;

Stored Procedures

Insert\_User\_Data script

DELIMITER $$

CREATE DEFINER=`Administrator`@`%` PROCEDURE `Insert\_User\_Data`(in roleID int,in FirstName varchar(20), in LastName varchar(20),in Address1 varchar(45),in Address2 varchar(45),in Address3 varchar(45), in county varchar(20), in ContactNo varchar (20), in email varchar(45))

begin

insert into User\_Tbl (User\_Tbl.Role\_ID, User\_Tbl.First\_Name,User\_Tbl.Last\_Name, User\_Tbl.Address\_1, User\_Tbl.Address\_2, User\_Tbl.Address\_3, User\_Tbl.County, User\_Tbl.Contact\_No, User\_Tbl.Email)

values (roleID,FirstName,LastName,Address1,Address2,Address3,county,ContactNo,email);

end$$

DELIMITER ;

Retrieve\_Location\_Data script

DELIMITER $$

CREATE DEFINER=`Administrator`@`%` PROCEDURE `Retrieve\_Location\_Data`(in userid int, in deviceid int, in startdatetime varchar(20), in enddatetime varchar(20))

begin

select User\_ID, Device\_ID, Date\_Time\_Recorded, Longitude, Latitude

from Geolocation\_Tbl

where User\_ID = userid && Device\_ID = deviceid && ( Date\_Time\_Recorded <= str\_to\_date(enddatetime, "%d,%m,%Y %H:%i:%s") && Date\_Time\_Recorded >= str\_to\_date(startdatetime, "%d,%m,%Y %H:%i:%s"));

end$$

DELIMITER ;

Retrieve\_User\_Data Script

DELIMITER $$

CREATE DEFINER=`Administrator`@`%` PROCEDURE `Retrieve\_User\_Data`(in userID int)

begin

select \*

from User\_Tbl

where User\_ID = userID;

end$$

DELIMITER ;

Return\_Device\_Names Script

DELIMITER $$

CREATE DEFINER=`Administrator`@`%` PROCEDURE `Return\_Device\_Names`(in userid int)

begin

select distinct Device\_Tbl.Device\_Name, Device\_Tbl.Device\_ID, Geolocation\_Tbl.User\_ID

from Device\_Tbl

inner join Geolocation\_Tbl on

Device\_Tbl.Device\_ID= Geolocation\_Tbl.Device\_ID

where User\_ID=userid;

end$$

DELIMITER ;

Return\_User\_ID Script

DELIMITER $$

CREATE DEFINER=`Administrator`@`%` PROCEDURE `Return\_User\_ID`(in emailaddress varchar(45))

begin

select distinct User\_ID

from User\_Tbl

where Email=emailaddress;

end$$

DELIMITER ;