DBMS ASSIGNMENT-1

AUTOMATED DANZER ZONE LIVE DETCTION DURING COMMUTE

Roll No :1602-18-737-109
Name:B. Swetha

Abstract:

This project is based on danger zone live detection during commute. A large number of precious lives are lost due to road traffic accidents. There is a need to have an effective road accident detection and information communication system in place to save injured persons. A system that sends information messages to nearby emergency services about the accident location for timely response is absolutely in need. In research literature,a number of automatic accident detection systems are proposed by numerous researches. These include accident detection using smart phones,GSM and GPS technologies,vehicular networks. The implementation of an automatic road accident detection and information communication system in every vehicle is very crucial.

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REQUIREMENT ANALYSIS:

List of tables:

- USERS
- COMMUTE
- SUGGESTED ROUTES
- POSTING DETAILS
- ADMIN

List of attributes their domain types:

Users:

Users name char(10)

Users vehicle_no varchar2(20)

Users email_id varchar2(20)

Suggested Routes:

Route_id number(10)

Area char(10)

Safe route char(10)

Danger route char(10)

Admin:

Admin id number(10)

Admin name char(10)

Admin age number(5)

Route_id number(10)

Commute:

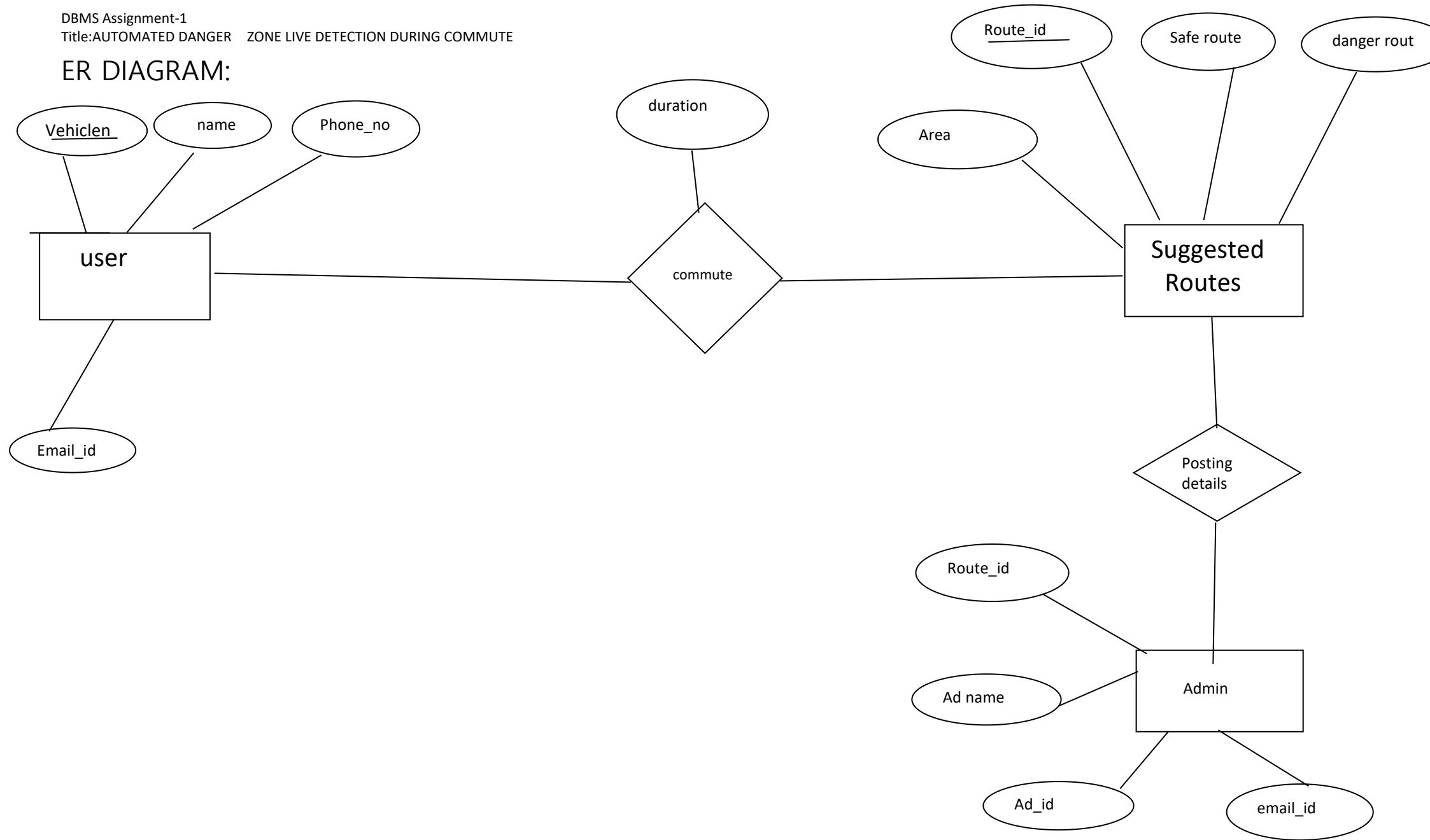Users vehicle_no varchar2(20)

Route_id number(10)

Area char(10)

Posting Details:

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Route_id number(10)

Users vehicle_no varchar2(20)

Area char(10)

ER DIAGRAM:

Route_id

Safe route

danger rout

duration

Vehiclen

name

Phone_no

Area

user

commute

Suggested
Routes

Email_id

Posting
details

Route_id

Admin

Ad name

Ad_id

email_id

DDL COMMANDS:

SQL> create table users(uname char(10),uvehicle_no varchar2(20),
uphone_no number(10),u email_id varchar2(20),primary key(uvehicle_no));
Table created.

SQL> create table commute(uvehicle_no varchar2(20),route_id number(5),area char(10), foreign

key(vehicle_no) references users ,foreign key(route_id)references suggested routes, primary

key(uvehicle_no,route_id));

Table created.

SQL> create table suggested_routes(route_id number(5),

 Safe route char(5),danger route char(5),areas char(5),primary key(route_id));

Table created.

SQL> create table posting_details(route_id number(5),uvehicle_no varchar2(20),area char(5), foreign key

(uvehicle_no) references users , foreign key(route_id)references suggested routes, primary

key(vehicle,route_id));

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Table created.

SQL> create table admin(ad_name char(5), adage number(5),ad_id number(10),primary key(route_id));

Table created.

SQL> select *from tab;

TNAME	TABTYPE	CLUSTERID
ADMIN	TABLE	
COMMUTE	TABLE	
POSTING_DETAILS	TABLE	
SUGGESTED_ROUTES	TABLE	
USERS	TABLE	

SQL> desc users;

Name	Null?	Type

```
---------------------------------------- -------- ----------------------------
   UNAME                                              CHAR(5)
   UVEHICLE_NO                           NOT NULL VARCHAR2(20)
   UPHONE_NO                                          NUMBER(20)
   UEMAIL_ID                                          VARCHAR2(20)
```

SQL> desc commute;

```
Name                                     Null?    Type
---------------------------------------- -------- ----------------------------
   UVEHICLE_NO                                        VARCHAR2(20)
   ROUTE_ID                                           NUMBER(5)
   AREA                                               CHAR(20)
   DURATION                                           VARCHAR2(20)
```

SQL> desc suggested_routes;

Name	Null?	Type
SAFE_ROUTE		VARCHAR2(20)
DANGER_ROUTE		VARCHAR2(20)
AREA		VARCHAR2(20)
ROUTE_ID	NOT NULL	NUMBER(5)

SQL> desc posting_details;

Name	Null?	Type
ROUTE_ID	NOT NULL	NUMBER(5)
UVEHICLE_NO	NOT NULL	VARCHAR2(20)
AREA		VARCHAR2(20)

SQL> desc admin;

Name	Null?	Type

```
---------------------------------------- -------- ----------------------------
   ADNAME                                              CHAR(5)
   ADAGE                                               NUMBER(5)
   AD_ID                                               VARCHAR2(20)
   ROUTE_ID                                            NOT NULL NUMBER(5)
```

DML COMMANDS:

1) Insert into users   values('&uname',&uvehicle_no','&uphone_no','&uemail_id');

  SQL> insert into users values('&uname','&uvehicle_no','&uphone','&uemail_id');

Enter value for uname: riya

Enter value for uvehicle_no: ts a32 6658

Enter value for uphone: 9976545331

Enter value for uemail_id: riya@gmail.com

old   1: insert into users values('&uname','&uvehicle_no','&uphone','&uemail_id')

new   1: insert into users values('riya','ts a32 6658','9976545331','riya@gmail.com')

1 row created.

  SQL> /

Enter value for uname: ashu

Enter value for uvehicle_no: ts03 4444

Enter value for uphone: 9387823748

Enter value for uemail_id: ashu@gmail.com

old   1: insert into users values('&uname','&uvehicle_no','&uphone','&uemail_id')

new   1: insert into users values('ashu','ts03 4444','9387823748','ashu@gmail.com')

1 row created.

  SQL> /

Enter value for uname: riya

Enter value for uvehicle_no: 493821

Enter value for uphone: 938748921

Enter value for uemail_id: riya@gmail.com

old   1: insert into users values('&uname','&uvehicle_no','&uphone','&uemail_id')

new   1: insert into users values('riya','49382j','938748921','riya@gmail.com')

1 row created.

SQL> /

Enter value for uname: mihir

Enter value for uvehicle_no: aptr 5436

Enter value for uphone: 879766554

Enter value for uemail_id: mihir@gmail.com

old   1: insert into users values('&uname','&uvehicle_no','&uphone','&uemail_id')

new   1: insert into users values('mihir','aptr 5436','879766554','mihir@gmail.com')

1 row created.

SQL> select * from users;

```
UNAME UVEHICLE_NO              UPHONE_NO UEMAIL_ID

----- -------------------- ---------- --------------------

riya   ts a32 6658          9976545331 riya@gmail.com

ashu   ts03 4444             9387823746 ashu@gmail.com

mihir ap tr54              8798766554 mihir@gmail.com

andy   ts pa01 9987          8738392256 ramesh@gmail.com

vijay ts wq98 7844         9456779987 vijay@gmail.com

jessy ap cx05 7777         9927369917 jessy@gmail.com

mihir ap tr54              8798766554 mihir@gmail.com

amit   ap yu76 1111          9977554437 amit@gmail.com

ashu   ts03 4444             9387823748 ashu@gmail.com
```

mihir aptr 5436   879766554 mihir@gmail.com

8 rows selected.

2) Insert into commute values('&uvehicle_no','&route_id,'&area','&duration');

  SQL> insert into commute values('&uvehicle','&route_id','&area','&duration');

Enter value for uvehicle: ts pa01 9987

Enter value for route_id: 3458

Enter value for area: srinagar

Enter value for duration:2 hours

old   1: insert into commute values('&uvehicle','&route_id','&area','&duration')

new   1: insert into commute values('ts pa01 9987','3458','srinagar','2 hours')

1 row created.

SQL> /

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Enter value for uvehicle: ts wq98 7844

Enter value for route_id: 4523

Enter value for area: hills

Enter value for duration:35 mins

old   1: insert into commute values('&uvehicle','&route_id','&area','&duration')

new   1: insert into commute values('ts wq98 7844','4523','hills','35 mins')

1 row created.

SQL> /

Enter value for uvehicle: ap gd02 1234

Enter value for route_id: 6410

Enter value for area: nandinagar

Enter value for duration: 3 hours

old   1: insert into commute values('&uvehicle','&route_id','&area','&duration')

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new   1: insert into commute values('ap gd02 1234','6410 ','nandinagar','3 hours')

1 row created.

SQL> /

Enter value for uvehicle: ts wa32 6658

Enter value for route_id: 5410

Enter value for area: karimnagar

Enter value for duration: 50 mins

old   1: insert into commute values('&uvehicle','&route_id','&area','&duration')

new   1: insert into commute values('ts wa32 6658','5410','karimnagar','50 mins')

1 row created.

SQL> select * from commute;

UVEHICLE_NO	ROUTE_ID	AREA	DURATION
ts pa01 99870	3458	srinagar	2 hours
ts wq98 7844	4523	hills	35 mins
ap gd02 1234	6410	nandinagar	3 hours
ap cx05 7777	4491	warangal	25 mins
ts wa32 6658	5410	karimnagar	50 mins
ap tr54	4396	medak	1 hour
ap yu76 1111	6601	rangareddy	25 mins

7 rows selected.

3) Insert into   suggested_routes values('&route_id','&safe route','&danger route','&area');

SQL> insert into suggested_routes values('&safe route','&danger route','&area','&route_id');

Enter value for safe: yes

Enter value for danger: -

Enter value for area: hills

Enter value for route_id: 8720

old   1: insert into suggested_routes values('&safe route','&danger route','&area','&route_id')

new   1: insert into suggested_routes values('yes route','- route','hills','8720')

1 row created.

SQL> /

Enter value for safe: yes

Enter value for danger: no

Enter value for area: srinagar

Enter value for route_id: 3458

old   1: insert into suggested_routes values('&safe route','&danger route','&area','&route_id')

new   1: insert into suggested_routes values('- route','yes route','srinagar','3592')

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1 row created.

SQL> /

Enter value for safe: no

Enter value for danger: yes

Enter value for area: medak

Enter value for route_id: 4396

old   1: insert into suggested_routes values('&safe route','&danger route','&area','&route_id')

new   1: insert into suggested_routes values('yes route','- route','medak','3910')

1 row created.

SQL> /

Enter value for safe: yes

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Enter value for danger: no

Enter value for area: hyderabad

Enter value for route_id: 8823

old   1: insert into suggested_routes values('&safe route','&danger route','&area','&route_id')

new   1: insert into suggested_routes values('- route','yes route','hyderabad','1927')

1 row created.

SQL> select * from suggested_routes;

SAFE_ROUTE	DANGER_ROUTE	AREA	ROUTE_ID
yes route	no route	srinagar	3458
no route	yes route	medak	4396
yes route	no route	hyderabad	8823
route	no route	hills	4523

yes route	route	nandinagar	6410
no route	yes route	kamalapuri colony	92
no route	yes route	warangal	4491
yes route	no route	karimnagar	5410
yes route	no route	rangareddy	6601
no route	yes route	nalgonda	5528

10 rows selected.

2) Insert   into posting_details values('&route_id','&uvehicle_no','&area');

SQL> insert into posting_details values('&route_id','&uvehicle_no','&area');

Enter value for route_id: 3458

Enter value for uvehicle_no: ts pa01 9987

Enter value for area: srinagar

old   1: insert into posting_details values('&route_id','&uvehicle_no','&area')

new   1: insert into posting_details values('3592','ts pa01 9987','srinagar')

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1 row created.

SQL> select * from posting_details;

```
   ROUTE_ID UVEHICLE_NO              AREA
---------- -------------------- --------------------
      3458 ts pa01 9987          srinagar
      4523 ts wq98 7844           hills
      6410 ap gd02 1234            nandinagar
      6410 ap cx05 7777            kamalapuri colony
      4491 ts wa32 6658            warangal
      5410 ap tr54               medak
      6601 ap yu76 1111            ranagareddy
      3592 ts pa01 9987          srinagar
```

8 rows selected.

4) Insert into admin values('&adname','&adage','&ad_id','&route_id');

SQL> insert into admin values('&adname','&adage','&ad_id','&route_id');

Enter value for adname: andy

Enter value for adage: 34

Enter value for ad_id: 39763

Enter value for route_id: 4632

old   1: insert into admin values('&adname','&adage','&ad_id','&route_id')

new   1: insert into admin values('andy','34','39763','4632')

1 row created.

SQL> /

Enter value for adname: jaya

Enter value for adage: 27

Enter value for ad_id: 64922

Enter value for route_id: 2910

old   1: insert into admin values('&adname','&adage','&ad_id','&route_id')

new   1: insert into admin values('jaya','27','64922','2910')

1 row created.

SQL> select * from admin;

ADNAM	ADAGE	AD_ID	ROUTE_ID
andy	34	93763	4632
jaya	27	64922	2910
sai	25	54378	6410
amit	35	76520	4491
nikitha	45	76528	5410

5 rows selected.

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