

# DBMS ASSIGNMENT-1

## Topic: Automated danger zone live detection during commute

### 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.

## REQUIREMENT ANALYSIS:

### List of table:

- 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)

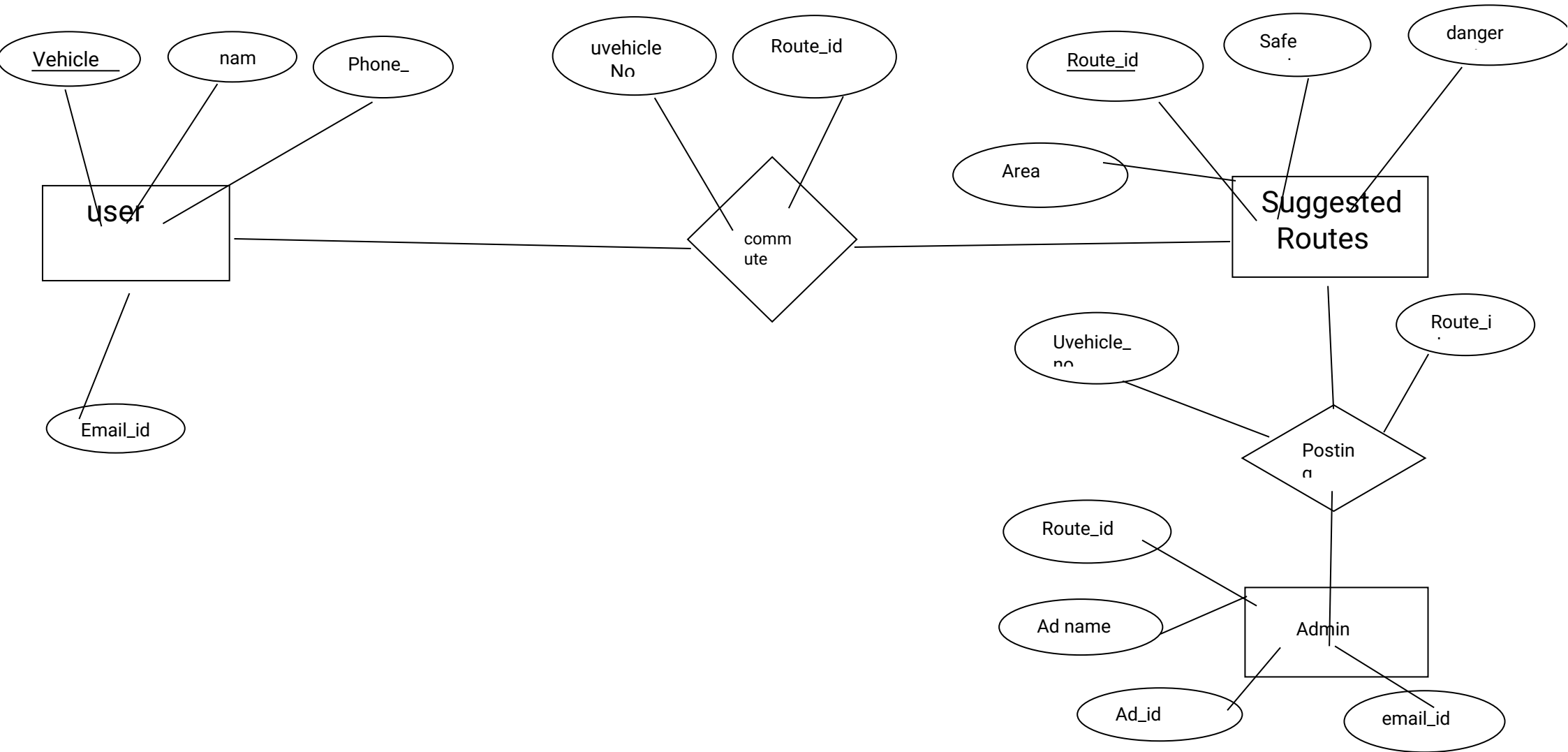
Posting Details:

Route\_id number(10)

Users vehicle\_no varchar2(20)

Area char(10)

## E R DIAGRAM



**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));
```

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)

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: 49382j
```



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');

SQL> insert into commute values('&uvehicle','&route\_id','&area');

Enter value for uvehicle: ts pa01 9987

Enter value for route\_id: 3458

Enter value for area: srinagar

old 1: insert into commute values('&uvehicle','&route\_id','&area')

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

1 row created.

SQL> /

Enter value for uvehicle: ts wq98 7844

Enter value for route\_id: 4523

Enter value for area: hills

old 1: insert into commute values('&uvehicle','&route\_id','&area')

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

1 row created.

SQL> /

Enter value for uvehicle: ap gd02 1234

Enter value for route\_id: 6410

Enter value for area: nandinagar

old 1: insert into commute values('&uvehicle','&route\_id','&area')

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

1 row created.

SQL> /

Enter value for uvehicle: ts wa32 6658

Enter value for route\_id: 5410

Enter value for area: karimnagar

old 1: insert into commute values('&uvehicle','&route\_id','&area')

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

1 row created.

SQL> select \* from commute;

UVEHICLE_NO	ROUTE_ID AREA
ts pa01 99870	3458 srinagar
ts wq98 7844	4523 hills
ap gd02 1234	6410 nandinagar
ap cx05 7777	4491 warangal
ts wa32 6658	5410 karimnagar
ap tr54	4396 medak
ap yu76 1111	6601 rangareddy

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')
```

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

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')

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
bavya	52	52457	4396

6 rows selected.

DBMS Assignment-1

Title:AUTOMATED DANGER ZONE LIVE DETECTION DURING COMMUTE

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