

DATABASE MANAGEMENT SYSTEM PROJECT

AVIRAL GOYAL	(102003631)
SAHIL RAI	(102183021)
SRIMON GHOSH	(102003638)

DRIVING LICENSE MANAGEMENT SYSTEM

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PROBLEM STATEMENT

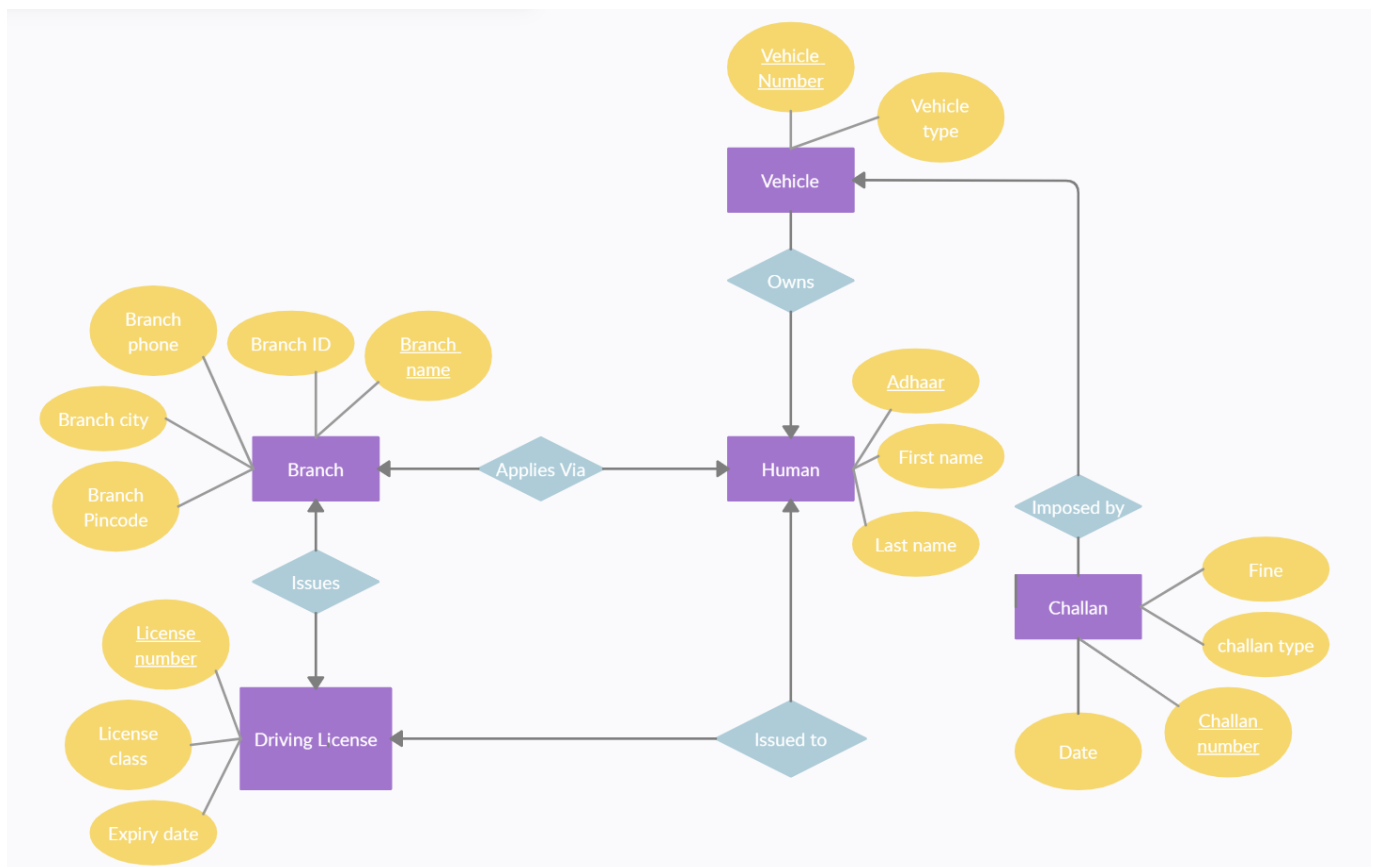
With the modernisation of the challan system we get fined for not following the traffic rules immediately, in today's time a person needs a portal where he can get information about his driving licence as well as challans on his registered vehicles with a good interface.

DATASET

driver			issues	driving license			vehicle	
driver first name	driver last name	adhaar number	issue date	license number	license class	license expiry	vehicle number	vehicle type
aviral	goyal	13454	2-5-2015	67897	dl	2-5-2015	UP-5087	HMV
sahil	rai	35345	25-1-2013	89678	II	25-1-2013	UP-5034	LMV
srmon	ghosh	53453	14-9-2019	89679	dl	14-9-2019	DL-5555	LMV-NT
amaan	syed	12423	8-12-2019	89678	dl	8-12-2019	PB-4321	HMV
siddhant	sachdeva	12344	12-3-2010	89678	II	12-3-2010	WB-6789	HMV
sidharth	garg	21344	11-4-2020	87969	II	11-4-2020	MH-8435	LMV
sarthak	saxena	12454	30-2-2022	96787	dl	30-2-2022	DL-0001	HMV
harsh	pandey	12342	3-2-2013	76987	II	3-2-2013	RJ-6452	LMV-NT
hetal	sharma	23414	17-10-2019	79678	II	17-10-2019	UP-4320	HMV
hardik	sharma	12342	22-5-2017	89678	II	22-5-2017	PB-0008	LMV
achyut	tiwari	34153	24-8-2005	67897	dl	24-8-2005	HR-2654	LMV-NT
harshit	gogia	54134	4-9-2019	67896	II	4-9-2019	JK-8231	HMV

challan				branch				
challan number	challan type	date	fine	branch name	branch id	pincode	branch city	branch phone number
45634	licence	02-05-2015	0	hazratganj	1	542654	lucknow	1111111
56345	helmet	25-01-2013	1000	sector-45	4	456264	noida	2222222
56453	seatbelt	14-09-2019	500	mehrauli	7	564564	delhi	3333333
73674	poc	08-12-2019	2000	jhaliawallan	2	768678	amritsar	4444444
54645	insurance	12-03-2010	2000	jadhavpur	5	234534	kolkata	5555555
73474	licence	11-04-2020	500	santa cruz	3	352365	mumbai	6666666
47367	helmet	30-02-2022	6000	rajouri	34	755675	delhi	7777777
47367	seatbelt	03-02-2013	2000	amer	63	245663	jaipur	8888888
24564	poc	17-10-2019	100	mehtab bagh	76	234546	agra	9999999
26546	insurance	22-05-2017	500	bhadson road	23	796966	patiala	9876543
54624	red light	24-08-2005	1000	cyber city	87	567457	gurgaon	1234567
62456	parking	04-09-2019	3000	lake	98	967848	leh	3456789

ENTITY RELATION DIAGRAM



ER TO TABLE

HUMAN

<u>ADHAR</u>	F_NAME	L_NAME
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VEHICLE

<u>Vehicle No</u>	Vehicle_T
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CHALLAN

<u>Challan No</u>	Date	Challan T	Fine
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BRANCH

<u>Branch N</u>	Branch ID	Branch Ph	Branch Cit	Branch Pin
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LICENSE

<u>License No</u>	License Class	Exp Date
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NORMALIZATION

TABLES NORMALIZED TO 3RD NORMAL FORM

adhaar	fname	lname
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adhaar	vehicle_number
--------	----------------

vehicle_number	fname	lname
----------------	-------	-------

branch_name	branch_phone
-------------	--------------

branch_name	branch_pincode
-------------	----------------

branch_pincode	branch_city
----------------	-------------

vehicle_number	vehicle_type
----------------	--------------

license_number	license_class	license_expiry	branch_name
----------------	---------------	----------------	-------------

adhaar	license_number
--------	----------------

challan_number	challan_type	challan_date	vehicle_number
----------------	--------------	--------------	----------------

challan_number	fine
----------------	------

	PRIMARY KEY
	FOREIGN KEY

PL/SQL CODE

```
create database dbms;  
use dbms;
```

```
create table afl(  
  fname varchar(10) NOT NULL,  
  lname varchar(10) NOT NULL,  
  adhaar int,  
  Primary Key (adhaar)  
);
```

```
insert into afl values('aviral','goyal',13454);  
insert into afl values('sahil','rai',35345);  
insert into afl values('srimon','ghosh',53453);  
insert into afl values('amaan','syed',12423);  
insert into afl values('sidhant','sachdeva',12344);  
insert into afl values('siddharth','garg',21344);  
insert into afl values('saarthak','saxena',12454);  
insert into afl values('harsh','pandey',12342);  
insert into afl values('hetal','sharma',23414);  
insert into afl values('hardik','vats',12347);  
insert into afl values('achyut','tiwari',34153);  
insert into afl values('harshit','gogia',54134);
```

```
select * from afl;
```

```
create table avn(  
  adhaar int,  
  vehicle_number varchar(10),  
  Primary Key (adhaar)  
);
```

```
insert into avn values(13454,'UP-5087');  
insert into avn values(35345,'UP-5034');  
insert into avn values(53453,'DL-5555');  
insert into avn values(12423,'PB-4321');  
insert into avn values(12344,'WB-6789');  
insert into avn values(21344,'MH-8435');  
insert into avn values(12454,'DL-0001');  
insert into avn values(12342,'RJ-6452');  
insert into avn values(23414,'UP-4320');  
insert into avn values(12340,'PB-0008');  
insert into avn values(34153,'HR-2654');  
insert into avn values(54134,'JK-8231');
```



```

create table vnfl(
vehicle_number varchar(10),
fname varchar(10) NOT NULL,
lname varchar(10) NOT NULL,
Primary Key (vehicle_number)
);

```

```

insert into vnfl values('aviral','goyal','UP-5087');
insert into vnfl values('sahil','rai','UP-5034');
insert into vnfl values('srimon','ghosh','DL-5555');
insert into vnfl values('amaan','syed','PB-4321');
insert into vnfl values('sidhant','sachdeva','WB-6789');
insert into vnfl values('sidharth','garg','MH-8435');
insert into vnfl values('saarthak','saxena','DL-0001');
insert into vnfl values('harsh','pandey','RJ-6452');
insert into vnfl values('hetal','sharma','UP-4320');
insert into vnfl values('hardik','sharma','PB-0008');
insert into vnfl values('achyut','tiwari','HR-2654');
insert into vnfl values('harshit','gogia','JK-8231');

```

```

create table bnbph(
branch_name varchar(10) NOT NULL,
branch_phone int NOT NULL,
Primary Key (branch_name)
);

```

```

insert into bnbph values('hazratganj',542654);
insert into bnbph values('gautambudh',456264);
insert into bnbph values('mehrauli',564564);
insert into bnbph values('jalawallah',768678);
insert into bnbph values('jadhavpur',234534);
insert into bnbph values('santa cruz',352365);
insert into bnbph values('rajouri',755675);
insert into bnbph values('amer',245663);
insert into bnbph values('mehtab',234546);
insert into bnbph values('bhadson',796966);
insert into bnbph values('cyber city',567457);
insert into bnbph values('lake',968848);

```

```

create table bnbpi(
branch_name varchar(10) NOT NULL,
branch_pincode int NOT NULL,
Primary Key (branch_name)
);

```

```

insert into bnbpi values('hazratganj',1111111);
insert into bnbpi values('gautambudh',2222222);

```

```

insert into bnbpi values('mehrauli',3333333);
insert into bnbpi values('jalawallah',4444444);
insert into bnbpi values('jadhavpur',5555555);
insert into bnbpi values('santa cruz',6666666);
insert into bnbpi values('rajouri',7777777);
insert into bnbpi values('amer',8888888);
insert into bnbpi values('mehtab',9999999);
insert into bnbpi values('bhadson',9876543);
insert into bnbpi values('cyber city',1234567);
insert into bnbpi values('lake',3456789);

```

```

create table bxibc(
branch_city varchar(10)NOT NULL,
branch_pincode int NOT NULL,
Primary Key (branch_pincode)
);
insert into bxibc values('lucknow',1111111);
insert into bxibc values('noida',2222222);
insert into bxibc values('delhi',3333333);
insert into bxibc values('amritsar',4444444);
insert into bxibc values('kolkata',5555555);
insert into bxibc values('mumbai',6666666);
insert into bxibc values('delhi',7777777);
insert into bxibc values('jaipur',8888888);
insert into bxibc values('agra',9999999);
insert into bxibc values('patiala',9876543);
insert into bxibc values('gurugram',1234567);
insert into bxibc values('leh',3456789);

```

```

create table vnv(
vehicle_number varchar(10),
vehicle_type varchar(10),
PRIMARY KEY (vehicle_number)
);
insert into vnv values('UP-5087','HMT');
insert into vnv values('UP-5037','HMT');
insert into vnv values('UP-5555','LMT');
insert into vnv values('DL-4321','LMT-NT');
insert into vnv values('PB-6789','HMT');
insert into vnv values('WB-8435','HMT');
insert into vnv values('MH-0001','LMT');
insert into vnv values('DL-6452','HMT');
insert into vnv values('RJ-4320','LMT-NT');
insert into vnv values('UP-0008','HMT');
insert into vnv values('PB-2654','LMT');
insert into vnv values('JK-8231','HMT');

```

```

create table lxlclebn(
licence_expiry date,

```

```

licence_class varchar(10),
licence_num int,
branch_name varchar(20) NOT NULL,
Primary Key (licence_num)
);

```

```

insert into lxlclebn values('2012-10-25','ll','67897','hazratganj');
insert into lxlclebn values('2011-05-01','dl','89678','sector-45');
insert into lxlclebn values('2015-07-09','dl','89679','mehrauli');
insert into lxlclebn values('1996-02-06','ll','82278','jhaliawallah');
insert into lxlclebn values('2004-01-07','dl','87969','jadhavpur');
insert into lxlclebn values('2022-01-03','dl','96787','santa cruz');
insert into lxlclebn values('2014-11-10','dl','76987','rajouri');
insert into lxlclebn values('2026-09-11','dl','79678','amer');
insert into lxlclebn values('2030-12-12','ll','80678','mehtab bagh');
insert into lxlclebn values('2021-09-10','ll','67807','bhadson road');
insert into lxlclebn values('2014-05-05','dl','67896','cyber city');
insert into lxlclebn values('2014-12-08','dl','18302','lake');

```

```

create table lna(
licence_num int,
adhaar int,
Primary Key (licence_num)
);

```

```

insert into lna values(67897,13454);
insert into lna values(89678,35345);
insert into lna values(89679,53453);
insert into lna values(89078,12423);
insert into lna values(80978,12344);
insert into lna values(87969,21344);
insert into lna values(96787,12454);
insert into lna values(76987,12342);
insert into lna values(79678,23414);
insert into lna values(89008,12347);
insert into lna values(67890,34153);
insert into lna values(67806,54134);

```

```

create table cnctcdvn(
challan_number int,
challan_type varchar(10),
challan_date date,
vehicle_number varchar(10),
Primary Key (challan_number)
);

```

```

insert into cnctcdvn values(45634,'licence','2015-05-02','UP-5037');
insert into cnctcdvn values(56345,'helmet','2015-05-02','RJ-4320');
insert into cnctcdvn values(56453,'seatbelt','2019-09-04','DL-4321');

```

```
insert into cnctcdvn values(73674,'poc','2013-01-25','RJ-4320');
insert into cnctcdvn values(54645,'insurance','2019-09-14','UP-5037');
insert into cnctcdvn values(73474,'licence','2019-12-08','DL-4321');
insert into cnctcdvn values(47367,'helmet','2010-03-12','WB-8435');
insert into cnctcdvn values(24564,'seatbelt','2020-04-11','PB-2654');
insert into cnctcdvn values(26546,'poc','2022-02-20','DL-6452');
insert into cnctcdvn values(54624,'insurance','2013-02-03','UP-0008');
insert into cnctcdvn values(62456,'parking','2019-10-17','PB-6789');
insert into cnctcdvn values(41334,'licence','2017-05-22','JK-8231');
insert into cnctcdvn values(48734,'red light','2005-08-24','UP-5087');
```

```
create table ctf(
challan_type varchar(10),
fine int,
Primary Key (challan_type)
);
```

```
insert into ctf values('licence',100);
insert into ctf values('helmet',1000);
insert into ctf values('seatbelt',500);
insert into ctf values('poc',2000);
insert into ctf values('insurance',2000);
insert into ctf values('parking',1000);
insert into ctf values('red light',2500);
```

OUTPUT

```
MySQL localhost:3306 ssl dbms SQL > select * from afl;
```

fname	lname	adhaar
harsh	pandey	12342
sidhant	sachdeva	12344
hardik	vats	12347
amaan	syed	12423
saarthak	saxena	12454
aviral	goyal	13454
siddharth	garg	21344
hetal	sharma	23414
achyut	tiwari	34153
sahil	rai	35345
srimon	ghosh	53453
harshit	gogia	54134

```
MySQL localhost:3306 ssl dbms SQL > select * from vnfl;
```

vehicle_number	fname	lname
achyut	tiwari	HR-2654
amaan	syed	PB-4321
aviral	goyal	UP-5087
hardik	sharma	PB-0008
harsh	pandey	RJ-6452
harshit	gogia	JK-8231
hetal	sharma	UP-4320
saarthak	saxena	DL-0001
sahil	rai	UP-5034
sidhant	sachdeva	WB-6789
siddharth	garg	MH-8435
srimon	ghosh	DL-5555

```
MySQL localhost:3306 ssl dbms SQL > select * from bnbph;
```

branch_name	branch_phone
amer	245663
bhadson	796966
cyber city	567457
gautambudh	456264
hazratganj	542654
jadhavpur	234534
jalawallah	768678
lake	968848
mehrauli	564564
mehtab	234546
rajouri	755675
santa cruz	352365

```
MySQL localhost:3306 ssl dbms SQL > select * from bnbpi;
```

branch_name	branch_pincode
amer	8888888
bhadson	9876543
cyber city	1234567
gautambudh	2222222
hazratganj	1111111
jadhavpur	5555555
jalawallah	4444444
lake	3456789
mehrauli	3333333
mehtab	9999999
rajouri	7777777
santa cruz	6666666

```
MySQL localhost:3306 ssl dbms SQL > select * from bxibc;
```

branch_city	branch_pincode
lucknow	1111111
gurugram	1234567
noida	2222222
delhi	3333333
leh	3456789
amritsar	4444444
kolkata	5555555
mumbai	6666666
delhi	7777777
jaipur	8888888
patiala	9876543
agra	9999999

```
MySQL localhost:3306 ssl dbms SQL > select * from vnvt;
```

vehicle_number	vehicle_type
DL-4321	LMV-NT
DL-6452	HMV
JK-8231	HMV
MH-0001	LMV
PB-2654	LMV
PB-6789	HMV
RJ-4320	LMV-NT
UP-0008	HMV
UP-5037	HMV
UP-5087	HMV
UP-5555	LMV
WB-8435	HMV

MySQL localhost:3306 ssl dbms SQL > select * from lxlclebn;

licence_expiry	licence_class	licence_num	branch_name
2014-12-08	d1	18302	lake
2021-09-10	l1	67807	bhadson road
2014-05-05	d1	67896	cyber city
2012-10-25	l1	67897	hazratganj
2014-11-10	d1	76987	rajouri
2026-09-11	d1	79678	amer
2030-12-12	l1	80678	mehtab bagh
1996-02-06	l1	82278	jhalliawallah
2004-01-07	d1	87969	jadhavpur
2011-05-01	d1	89678	sector-45
2015-07-09	d1	89679	mehrauli
2022-01-03	d1	96787	santa cruz

MySQL localhost:3306 ssl dbms SQL > select * from lna;

licence_num	adhaar
67806	54134
67890	34153
67897	13454
76987	12342
79678	23414
80978	12344
87969	21344
89008	12347
89078	12423
89678	35345
89679	53453
96787	12454


```
MySQL localhost:3306 ssl dbms SQL > select * from cnctcdvn;
```

challan_number	challan_type	challan_date	vehicle_number
24564	seatbelt	2020-04-11	PB-2654
26546	poc	2022-02-20	DL-6452
41334	licence	2017-05-22	JK-8231
45634	licence	2015-05-02	UP-5037
47367	helmet	2010-03-12	WB-8435
48734	red light	2005-08-24	UP-5087
54624	insurance	2013-02-03	UP-0008
54645	insurance	2019-09-14	UP-5037
56345	helmet	2015-05-02	RJ-4320
56453	seatbelt	2019-09-04	DL-4321
62456	parking	2019-10-17	PB-6789
73474	licence	2019-12-08	DL-4321
73674	poc	2013-01-25	RJ-4320

```
MySQL localhost:3306 ssl dbms SQL > select * from avn;
```

adhaar	vehicle_number
12340	PB-0008
12342	RJ-6452
12344	WB-6789
12423	PB-4321
12454	DL-0001
13454	UP-5087
21344	MH-8435
23414	UP-4320
34153	HR-2654
35345	UP-5034
53453	DL-5555
54134	JK-8231

```
MySQL localhost:3306 ssl dbms SQL > select * from ctf;
```

challan_type	fine
helmet	1000
hexmet	6000
insurance	2000
licence	100
licexce	500
parking	1000
poc	2000
red light	2500
seatbelt	500