

# Create database of Insurance:

## MYSQL Code

```
create database insuranceD1;
```

```
use insuranceD1;
```

```
create table person(  
    driver_id char(10),  
    name varchar(10),  
    address varchar(20),  
    primary key(driver_id)  
);
```

```
create table car(  
    reg_no char(10),  
    model varchar(15),  
    primary key(reg_no)  
);
```

```
create table owns(  
    driver_id char(10),  
    reg_no char(10),  
    primary key(driver_id,reg_no),  
    foreign key(driver_id) references person(driver_id) on delete cascade,  
    foreign key(reg_no) references car(reg_no) on delete cascade  
);
```

```
create table accidents(  
    report_num char(10),  
    accident_date char(10),  
    location char(20),
```

```
primary key(report_num)
);
```

```
create table participated(
    driver_id char(10),
    reg_no char(10),
    report_num char(10),
    damage_amount int,
    primary key(driver_id,reg_no,report_num),
    foreign key(driver_id) references person(driver_id) on delete cascade,
    foreign key(reg_no) references car(reg_no) on delete cascade,
    foreign key(report_num) references accidents(report_num) on delete cascade
);
```

**//Altering the table car by adding a variable year:**

```
alter table car
add year year;
```

**//Altering the table accidents by modifying the data type of the variable accident\_date**

```
alter table accidents
modify accident_date date;
```

**//Insert at least 5 tuples for each table:**

```
insert into person
value('A01','RICHARD','SRINIVAS NAGAR'),
('A02','PRADEEP','RAJAJI NAGAR'),
('A03','SMITH','ASHOK NAGAR'),
('A04','VENU','N R COLONY'),
('A05','JHON','HANUMANTH NAGAR');
```

```
insert into car
value('KA052250','INDICA','1990'),
('KA031181','LANCER','1957'),
('KA095477','TOYOTA','1998'),
```

```
('KA053408','HONDA','2008'),  
('KA041702','AUDI','2005');
```

insert into owns

```
value('A01','KA052250'),  
('A02','KA053408'),  
('A03','KA031181'),  
('A04','KA095477'),  
('A05','KA041702');
```

insert into accidents

```
value('11','2003-01-01','MYSORE ROAD'),  
('12','2004-02-04','SOUTH END CIRCLE'),  
('13','2003-01-21','BULL TEMPLE ROAD'),  
('14','2008-01-17','MYSORE ROAD'),  
('15','2005-03-04','KANAKPURA ROAD');
```

insert into participated

```
value('A01','KA052250','11','10000'),  
('A02','KA053408','12','50000'),  
('A03','KA095477','13','25000'),  
('A04','KA031181','14','3000'),  
('A05','KA041702','15','5000');
```

**//Displaying the inputs given to every table:**

```
select * from person;
```

```
select * from car;
```

```
select * from owns;
```

```
select * from accidents;
```

```
select * from participated;
```

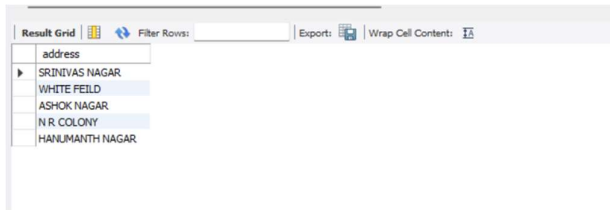
**//Updating the table person by changing the address of driver\_id A02 and displaying address column:**

update person

set address = 'WHITE FEILD'

where driver\_id = 'A02';

select address from person;



address
SRINIVAS NAGAR
WHITE FEILD
ASHOK NAGAR
N R COLONY
HANUMANTH NAGAR

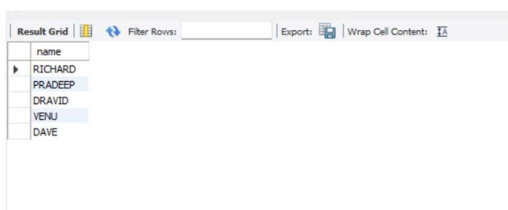
**//Updating the table person by changing the name of driver\_id A05 and displaying name column:**

update person

set name = 'DAVE'

where driver\_id = 'A05';

select name from person;

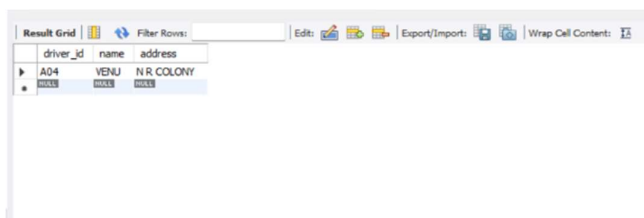


name
RICHARD
PRADEEP
DRAVID
VENU
DAVE

**//Displaying the tuple from person table whose driver\_id is A04:**

select \* from person

where driver\_id = 'A04';



driver_id	name	address
A04	VENU	N R COLONY

**//Displaying year+1 and again displaying year+1 but with a label update\_date:**

select year+1 from car;

The screenshot shows a 'Result Grid' window with a toolbar at the top containing icons for 'Filter Rows', 'Export', and 'Wrap Cell Content'. The grid displays a single column with the header 'year+1'. Below the header, there are five rows containing the years 1958, 2006, 1991, 2009, and 1999. A status bar at the bottom indicates 'Result 5 x'.

year+1
1958
2006
1991
2009
1999

select year+1 update\_date from car;

The screenshot shows a 'Result Grid' window with a toolbar at the top. The grid displays a single column with the header 'update\_date'. Below the header, there are five rows containing the years 1958, 2006, 1991, 2009, and 1999. A status bar at the bottom indicates 'Result 5 x'.

update_date
1958
2006
1991
2009
1999

**//Displaying the location column from accidents table with unique/distinct name:**

select distinct location from accidents;

The screenshot shows a 'Result Grid' window with a toolbar at the top. The grid displays a single column with the header 'location'. Below the header, there are four rows containing the locations: 'MYSORE ROAD', 'SOUTH END CIRCLE', 'BULL TEMPLE ROAD', and 'KANAKPURA ROAD'. A status bar at the bottom indicates 'Result 4 x'.

location
MYSORE ROAD
SOUTH END CIRCLE
BULL TEMPLE ROAD
KANAKPURA ROAD

**//Displaying the participated table in ascending order of damage\_amount values:**

select \* from participated

order by damage\_amount asc;

The screenshot shows a 'Result Grid' window with a toolbar at the top. The grid displays a table with four columns: 'driver\_id', 'reg\_no', 'report\_num', and 'damage\_amount'. The data is sorted in ascending order of 'damage\_amount'. The rows are: A04 (KA031181, 14, 3000), A05 (KA041702, 15, 5000), A01 (KA052250, 11, 10000), A03 (KA095477, 13, 25000), and A02 (KA053408, 12, 50000). A status bar at the bottom indicates 'Result 5 x'.

driver_id	reg_no	report_num	damage_amount
A04	KA031181	14	3000
A05	KA041702	15	5000
A01	KA052250	11	10000
A03	KA095477	13	25000
A02	KA053408	12	50000

**//Displaying the tuples of only those column from car table whose year inputs lie between 1990 and 2003:**

```
select * from car
```

```
where year between 1990 and 2003;
```

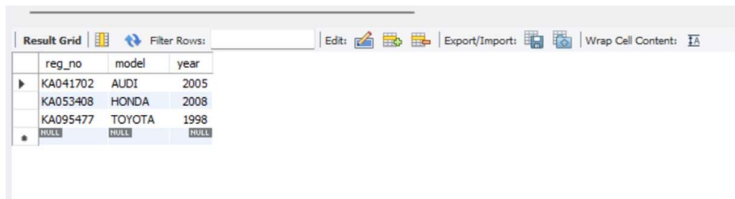


reg_no	model	year
KA052250	INDICA	1990
KA095477	TOYOTA	1998
NULL	NULL	NULL

**//Displaying the tuple of only those column from car table whose year inputs are greater than 1990**

```
select * from car
```

```
where year > 1990;
```



reg_no	model	year
KA041702	AUDI	2005
KA053408	HONDA	2008
KA095477	TOYOTA	1998
NULL	NULL	NULL

**//Updating the person table by changing the name of driver\_id A03:**

```
update person
```

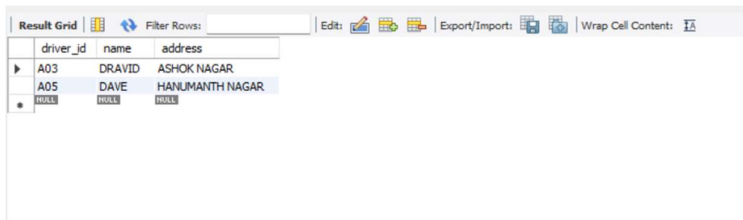
```
set name = 'DRAVID'
```

```
where driver_id = 'A03';
```

**//Displaying the tuple whose name inputs starts with 'D' from person table:**

```
select * from person
```

```
where name like 'D%';
```



driver_id	name	address
A03	DRAVID	ASHOK NAGAR
A05	DAVE	HANUMANTH NAGAR
NULL	NULL	NULL

**//Displaying the tuple whose name inputs have second letter as 'A' from person table:**

```
select * from person
```

```
where name like '_A%';
```

Result Grid		
driver_id	name	address
A05	DAVE	HANUMANTH NAGAR

**//Displaying tuples whose year inputs are 2008,2005 from car table:**

```
select * from car
```

```
where year in(2008,2005);
```

Result Grid		
reg_no	model	year
KA041702	AUDI	2005
KA053408	HONDA	2008

**//Displaying tuple whose name inputs starts with 'P' from person table:**

```
select * from person
```

```
where name like 'P%';
```

Result Grid		
driver_id	name	address
A02	PRADEEP	WHITE FEILD

**//Displaying tuple whose name inputs starts with 'p' from person table:**

```
select * from person
```

```
where name like 'p%';
```

Result Grid		
driver_id	name	address
A02	PRADEEP	WHITE FEILD

**//Displaying the tuple whose model input is HONDA and year input is 1957:**

```
select * from car
```

```
where model = 'HONDA' or year = '1957';
```

Result Grid	Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:
reg_no	model	year		
KA031181	LANCER	1957		
KA053408	HONDA	2008		
NULL	NULL	NULL		

**//Displaying tuple whose year inputs are not 2008,2005:**

select \* from car

where year not in(2008,2005);

Result Grid	Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:
reg_no	model	year		
KA031181	LANCER	1957		
KA052250	INDICA	1990		
KA095477	TOYOTA	1998		
NULL	NULL	NULL		