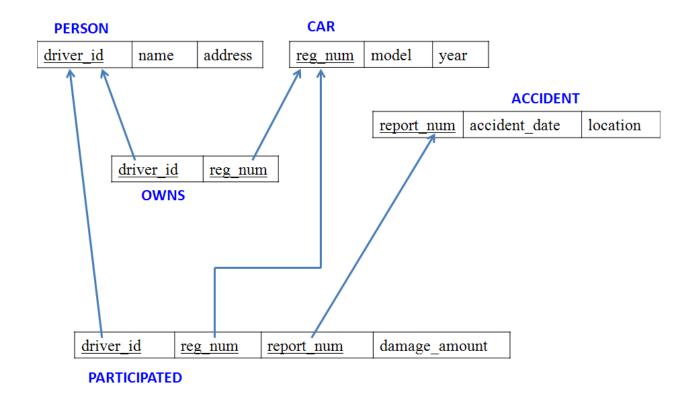
### PROGRAM 1: INSURANCE DATABASE

Schema diagram



Consider the Insurance database given below. The data types are specified.

PERSON (driver\_id: String, name: String, address: String)

CAR (reg num: String, model: String, year: int)

ACCIDENT (report num: int, accident date: date, location: String)

OWNS (driver id: String, reg num: String)

PARTICIPATED (driver id: String,reg num: String, report num: int, damage amount: int)

# List of operations

- Create the above tables by properly specifying the primary keys and the foreign keys.
- Enter at least five tuples for each relation
- Display Accident date and location
- Display driver id who did the accident damage greater than or equal to Rs.25000
- i) Create the above tables by properly specifying the primary keys and the foreign keys.

SQL> create table person (driver id varchar(10), name varchar(20), address varchar(30), primary key(driver id)); Table created. SQL> desc person Name Null? Type DRIVER ID NOT NULL VARCHAR2(10) NAME VARCHAR2(20) **ADDRESS** VARCHAR2(30) SQL> create table car(reg\_num varchar(10),model varchar(10),year int, primary key(reg\_num)); Table created. SQL> desc car Name Null? Type **REG NUM** NOT NULL VARCHAR2(10) MODEL VARCHAR2(10) YEAR NUMBER(38) SQL> create table accident(report num int, accident date date, location varchar(20), primary key(report num)); Table created. SOL> desc accident Name Null? Type REPORT NUM NOT NULL NUMBER(38) ACCIDENT DATE **DATE** LOCATION VARCHAR2(20) SQL> create table owns(driver id varchar(10),reg num varchar(10), primary key(driver id, reg num), foreign key(driver id) references person(driver id), foreign key(reg num) references car(reg num)); Table created. SQL> desc owns Name Null? DRIVER ID NOT NULL VARCHAR2(10) REG NUM NOT NULL VARCHAR2(10)

SQL>create table participated(driver\_id varchar(10), reg\_num varchar(10), report\_num int, damage\_amount int, primary key(driver\_id, reg\_num, report\_num),

foreign key(driver\_id) references person(driver\_id), foreign key(reg\_num) references car(reg\_num),

foreign key(report\_num) references accident(report\_num));

Table created.

**SQL>** desc participated

Name Null? Type

DRIVER ID NOT NULL VARCHAR2(10)

REG\_NUM NOT NULL VARCHAR2(10)
REPORT NUM NOT NULL NUMBER(38)

DAMAGE AMOUNT NUMBER(38)

# ii) Enter at least five tuples for each relation.

# **Tables**

### **PERSON**

driver_id	name	address
A01	Richard	Srinivas nagar
A02	Pradeep	Rajaji nagar
A03	Smith	Ashok nagar
A04	Venu	N R Colony
A05	Jhon	Hanumanth nagar

#### CAR

reg_num	model	year
KA052250	Indica	1990
KA031181	Lancer	1957
KA095477	Toyota	1998
KA053408	Honda	2008
KA041702	Audi	2005

#### **OWNS**

driver_id	reg_num
A01	KA052250
A02	KA053408
A03	KA031181
A04	KA095477
A05	KA041702

#### **ACCIDENT**

report_num	accident_date	location
11	01-JAN-03	Mysore Road
12	02-FEB-04	South end Circle
13	21-JAN-03	Bull temple Road
14	17-FEB-08	Mysore Road
15	04-MAR-05	Kanakpura Road

#### **PARTICIPATED**

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

# **QUERY 2: Enter at least five tuples for each relation**

# SQL> insert into person values('&driver\_id','&name','&address');

Enter value for driver\_id: A01 Enter value for name: Richard

Enter value for address: Srinivas Nagar

old 1: insert into person values('&driver\_id','&name','&address') new 1: insert into person values('A01','Richard','Srinivas Nagar')

1 row created.

SQL>/

Enter value for driver\_id: A02 Enter value for name: Pradeep Enter value for address: Rajajinagar

old 1: insert into person values('&driver\_id','&name','&address') new 1: insert into person values('A02','Pradeep','Rajajinagar')

1 row created.

### SQL> commit;

Commit complete.

# **SQL> select \* from person;**

-		
DRIVER_ID	NAME	ADDRESS

A01 Richard Srinivas Nagar
A02 Pradeep Rajajinagar
A03 Smith Ashoknagar
A04 Venu N.R.Colony
A05 John Hanumanth Nagar

# SQL> insert into car values('&reg\_num','&model', &year);

Enter value for reg num: KA052250

Enter value for model: Indica Enter value for year: 1990

old 1: insert into car values('&reg\_num','&model', &year) new 1: insert into car values('KA052250','Indica', 1990)

1 row created.

# SQL>/

Enter value for reg\_num: KA031181 Enter value for model: Lancer Enter value for year: 1957

old 1: insert into car values('&reg\_num','&model',&year) new 1: insert into car values('KA031181','Lancer', 1957)

1 row created.

### SQL> commit;

Commit complete.

# **SQL>** select \* from car;

REG_NUM	MODEL	YEAR
KA052250	Indica	1990
KA031181	Lancer	1957
KA095477	Toyota	1998
KA053408	Honda	2008
KA041702	Audi	2005

# SQL> insert into accident values(&report\_num,'&accident\_date','&location');

Enter value for report\_num: 11

Enter value for accident\_date: 01-JAN-03 Enter value for location: Mysore Road

old 1: insert into accident values(&report num, '&accident date', '&location')

new 1: insert into accident values(111,'01-JAN-03','Mysore Road')

1 row created.

### SQL> commit;

#### Commit complete.

# SQL> select \* from accident;

# REPORT NUM ACCIDENT DATE LOCATION

11	01-JAN-03	Mysore Road		
12	02-FEB-04	Southend Circle		
13	21-JAN-03	Bulltemple Road		

14 17-FEB-08 Mysore Road 15 04-MAR-05 Kanakpura Road

# SQL> insert into owns values ('&driver\_id','&reg\_num');

Enter value for driver id: A01

Enter value for reg num: KA052250

old 1: insert into owns values('&driver\_id','&reg\_num')
new 1: insert into owns values('A01','KA052250')

1 row created.

# SQL> commit;

Commit complete.

### **SQL>** select \* from owns;

DRIVER_ID	REG_NUM
A01	KA052250
A02	KA053408
A04	KA031181
A03	KA095477
A05	KA041702

# SQL> insert into participated values ('&driver\_id','&reg\_num',&report\_num, &damage\_amount);

Enter value for driver id: A01

Enter value for reg\_num: KA052250 Enter value for report num: 11

Enter value for damage amount: 10000

old 1: insert into participated values ('&driver id', '&reg num', &report num, &damage amount)

new 1: insert into participated values('A01','KA052250',11,10000)

1 row created.

### SQL>/

Enter value for driver\_id: A02

Enter value for reg\_num: KA053408 Enter value for report num: 12

Enter value for damage amount: 50000

old 1: insert into participated values ('&driver id', '&reg num', &report num, & damage amount)

new 1: insert into participated values('A02','KA053408',12,50000)

1 row created.

### SQL> commit;

Commit complete.

# **SQL>** select \* from participated;

DRIVER	LID I	REG_NUM	REPO!	RT_NUM	DAMAGE_	AMOUNT
Δ01	Κ	 \052250	11		10000	

A02	KA053408	12	50000
A03	KA095477	13	25000
A04	KA031181	14	3000
A05	KA041702	15	5000

### **OUERY 3:**

a) Update the damage amount to 25000 for the car with a specific reg\_num (example 'K A053408' ) for which the accident report number was 12.

SQL> update participated set damage amount=25000 where reg\_num='KA053408' and report\_num=12;

1 row updated.

SQL> commit;

Commit complete.

**SQL> select \* from participated;** 

# DRIVER ID REG NUM REPORTNUM DAMAGE AMOUNT

A01 KA052250 11 10000 KA053408 12 25000 A02 KA095477 13 25000 A03 A04 KA031181 14 3000 KA041702 15 5000 A05

b) Add a new accident to the database.

SQL> insert into accident values(16,'15-MAR-08','Domlur');

1 row created.

# **SQL> select \* from accident;**

# REPORT NUM ACCIDENT DATE LOCATION

11	01-JAN-03	Mysore Road
12	02-FEB-04	Southend Circle
13	21-JAN-03	Bulltemple Road
14	17-FEB-08	Mysore Road
15	04-MAR-05	Kanakpura Road
16	15-MAR-08	Domlur

6 rows selected.

# • Display Accident date and location

select accident\_date, location
from ACCIDENT;

• Display driver id who did the accident damage greater than or equal to Rs.25000 select driver\_id from PARTICIPATED where damage\_amount >=25000;