

## 5\_output

By: Chris Neal  
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Section:02

### QUERY 1:

1. List the cars (license, model and year, Amount\_of\_Damage) that have been involved in any accidents.  
Order the result by license in descending order.

```
SELECT C.License, C.Model, C.Year, A.Amount_of_Damage
FROM CAR AS C, HAD AS H, ACCIDENT AS A
WHERE C.License=H.License AND H.AccidentNo=A.Accident_no;
```

```
mysql> SELECT C.License, C.Model, C.Year, A.Amount_of_Damage
-> FROM CAR AS C, HAD AS H, ACCIDENT AS A
-> WHERE C.License=H.License AND H.AccidentNo=A.Accident_no;
```

License	Model	Year	Amount_of_Damage
1111111111111111	Mustang	1965	99999999999999.99
3333333333333333	Honda Accord	1999	300.25
4444444444444444	Honda Accord	1992	100.25
5555555555555555	Telsa	2013	99999999999999.99
6666666666666666	Honda Accord	2013	500.25

5 rows in set (0.00 sec)

### QUERY 2:

2. List the cars that have more than two accidents. List license and number of accidents.

```
SELECT License, Accident_no
FROM HAD AS H, ACCIDENT AS A
WHERE A.Accident_No>2 AND A.Accident_No=H.AccidentNo;
```

```
mysql> SELECT License, Accident_no
-> FROM HAD AS H, ACCIDENT AS A
-> WHERE A.Accident_No>2 AND A.Accident_No=H.AccidentNo;
```

License	Accident_no
4444444444444444	3
5555555555555555	4
6666666666666666	5

3 rows in set (0.00 sec)

### QUERY 3:

3. List information (driver name, amount of damage, license, model and SSN) about the accidents  
in which the owner of the car are involved i.e., the Driver\_Name and Customer\_Name are the same.

```
SELECT A.Driver_Name, A.Amount_of_Damage, H.License, C2.Model, O.SSN
FROM CUSTOMER AS C1, OWNS AS O, CAR AS C2, HAD AS H, ACCIDENT AS A
WHERE C1.Customer_Name=A.Driver_Name AND (O.License=C2.License AND H.License =
C2.License AND A.Accident_No=H.AccidentNo);
```

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```
mysql> SELECT A.Driver_Name, A.Amount_of_Damage, H.License, C2.Model, O.SSN FROM
CUSTOMER AS C1, OWNS AS O, CAR AS C2, HAD AS H, ACCIDENT AS A
WHERE C1.Customer_Name=A.Driver_Name AND (O.License=C2.License AND H.License =
C2.License AND A.Accident_No=H.AccidentNo);
```

Driver_Name	Amount_of_Damage	License	Model	SSN
Joe Smith	9999999999999.99	111111111111111	Mustang	111111111
Phil Arnold	300.25	333333333333333	Honda Accord	333333333
Mary Arnold	100.25	444444444444444	Honda Accord	444444444
Jessica Smith	250000.50	555555555555555	Telsa	222222222
Steve McDonald	500.25	666666666666666	Honda Accord	666666666

5 rows in set (0.00 sec)

## QUERY 4:

4. Obtain the information of any policy (policy number, policy rate and policy details) whose policy rate is higher than the rate of policy number 12.

```
SELECT P.PolicyNo, P.Policy_Rate, P.Policy_Details
FROM POLICY AS P
WHERE P.Policy_Rate>(SELECT P2.Policy_Rate FROM POLICY AS P2 WHERE P2.PolicyNo=12);
```

```
mysql> SELECT P.PolicyNo, P.Policy_Rate, P.Policy_Details
-> FROM POLICY AS P
-> WHERE P.Policy_Rate>(SELECT P2.Policy_Rate FROM POLICY AS P2 WHERE
P2.PolicyNo=12);
```

PolicyNo	Policy_Rate	Policy_Details
1	9999999999999.99	Full Coverage
2	1000000.00	Deluxe Coverage

2 rows in set (0.00 sec)

## QUERY 5:

5. Consider all policies, list the lowest rate, highest rate, and average rate.

```
SELECT MIN(P1.Policy_Rate), MAX(P1.Policy_Rate), AVG(P1.Policy_Rate)
FROM POLICY AS P1;
```

```
mysql> SELECT MIN(P1.Policy_Rate), MAX(P1.Policy_Rate), AVG(P1.Policy_Rate)
-> FROM POLICY AS P1;
```

MIN(P1.Policy_Rate)	MAX(P1.Policy_Rate)	AVG(P1.Policy_Rate)
10.00	9999999999999.99	3333333666669.996667

1 row in set (0.00 sec)

## QUERY 6:

6. Get information (accident number, driver name, accident date and amount of damage) of the accident which has the highest amount of damage among all the accidents.

```
SELECT Accident_no, Driver_name, Accident_Date, MAX(Amount_of_Damage)
```

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FROM ACCIDENT;

```
mysql> SELECT Accident_no, Driver_name, Accident_Date, MAX(Amount_of_Damage) FROM
ACCIDENT;
```

Accident_no	Driver_name	Accident_Date	MAX(Amount_of_Damage)
1	Joe Smith	2000-05-14	99999999999999.99

1 row in set (0.00 sec)

QUERY 7:

7. Get the information (customer name, city and state) about the customers who own cars with the model of 'Honda Accord'. Also get those cars' license, and year made.

```
SELECT C1.Customer_Name, C1.City, C1.State, C2.License, C2.Year
FROM CUSTOMER AS C1, CAR AS C2, OWNS AS O
WHERE C1.SSN=O.SSN AND O.License=C2.License AND C2.Model='Honda Accord';
```

```
mysql> SELECT C1.Customer_Name, C1.City, C1.State, C2.License, C2.Year
-> FROM CUSTOMER AS C1, CAR AS C2, OWNS AS O
-> WHERE C1.SSN=O.SSN AND O.License=C2.License AND C2.Model='Honda Accord';
```

Customer_Name	City	State	License	Year
Phil Arnold	Roseville	California	3333333333333333	1999
Mary Arnold	Sunrise	California	4444444444444444	1992
Steve McDonald	Sunrise	California	6666666666666666	2013

3 rows in set (0.01 sec)

QUERY 8:

8. Retrieve the customers' information (SSN, customer name, street, city, state and zip) who live either in 'Roseville' or 'Sunrise'. ('Roseville' and 'Sunrise' are city names)

```
SELECT SSN, Customer_Name, Street, City, State, Zip
FROM CUSTOMER
WHERE City='Roseville' OR City='Sunrise';
```

```
mysql> SELECT SSN, Customer_Name, Street, City, State, Zip
-> FROM CUSTOMER
-> WHERE City='Roseville' OR City='Sunrise';
```

SSN	Customer_Name	Street	City	State	Zip
3333333333	Phil Arnold	Oak Street	Roseville	California	95747
4444444444	Mary Arnold	Sunrise Blvd.	Sunrise	California	95848
6666666666	Steve McDonald	Sunrise Blvd.	Sunrise	California	95848

3 rows in set (0.00 sec)

QUERY 9:

9. Retrieve policies that cover more than 2 cars. List policy number and number of cars covered.

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```
SELECT PolicyNo_Ref, numCount
FROM( SELECT PolicyNo_Ref,
      COUNT(PolicyNo_Ref) AS numCount
      FROM CAR
      GROUP BY PolicyNo_Ref ) as TEMP_TABLE
WHERE numCount > 2;
```

```
mysql> SELECT PolicyNo_Ref, numCount
-> FROM( SELECT PolicyNo_Ref,
->        COUNT(PolicyNo_Ref) AS numCount
->        FROM CAR
->        GROUP BY PolicyNo_Ref ) as TEMP_TABLE
-> WHERE numCount > 2;
```

PolicyNo_Ref	numCount
12	3

1 row in set (0.00 sec)