

VEHICLE INSURANCE DATABASE

Create a table with name POLICY having the following attributes:

```
CREATE table POLICY
(
Customer_id Varchar(15) not NULL,
Name Varchar(30) not NULL,
Type_of_vehivle Varchar(10) not NULL,
Vehicle_class varchar(5),
Reg_no varchar(10)
Policy_no int Primary key,
Premium int,
Start_date varchar(10),
);
```

1. Add End _date attribute to the table of type DATE.
2. Insert the following details into the table.

CUSTOMER_ID	NAME	TYPE_OF_VEHIVLE	VEHICLE_CLASS	REG_NO	POLICY_NO	PREMIUM	START_DATE	END_DATE
1ST24	Ramya	Car	PVT	KA05HJ1234	645218	10000	30-MAR-20	29-MAR-21
2BM45	Aniketh	Car	PVT	KA41GG4567	854621	6000	15-AUG-20	14-AUG-22
2BM45	Aniketh	Bike	PVT	KA41KL2589	254136	2500	15-AUG-20	14-AUG-22
5FD78	Anusha	Scooter	PVT	KA05MM7496	456218	2000	13-FEB-20	12-FEB-23
2XY11	Amogh	Truck	COM	KA01HH0052	234689	20000	20-APR-20	19-APR-25
6CV59	Nithin	Bus	COM	KA02FX0012	912345	25000	02-JUN-20	01-JUN-25
9RT32	Mohan	Auto	COM	KA51JJ4523	198763	4000	22-OCT-20	21-OCT-23
7KH57	Indira	Car	PVT	NULL	500124	9000	05-SEP-20	04-SEP-22
8EE23	Vikram	Bike	PVT	KA56GJ2156	520048	2750	11-NOV-20	10-NOV-23
8EE23	Vikram	Scooter	PVT	KA56KJ5214	630891	1800	22-OCT-20	21-OCT-23
8EE23	Vikram	Car	PVT	KA56FG7894	479600	12000	05-SEP-20	04-SEP-22
4IK89	Ananth	Bike	PVT	KA03GG9987	124896	4000	11-NOV-20	10-NOV-23
7OO66	Anirudh	Truck	COM	KA21LL5012	249870	22000	22-OCT-20	21-OCT-23
4ZZ99	Sanjeev	Auto	COM	KA44JK1023	998742	3800	05-SEP-20	04-SEP-22
8ZS59	Sindu	Scooter	PVT	NULL	347059	2900	21-MAR-20	20-MAR-21

3. Display all the records of the POLICY table.

4. Display customer_id, name and policy_no of all the records in the table.
5. Display details of all who has taken a CAR insurance .
6. Display the count of COMMERTIAL vehicles.
7. Display all records with PREMIUM greater than or equal to 10,000.
8. Display all the records with NAME as Vikram and calculate the SUM of his premiums.
9. Display all the records with End_date between 01-JAN-2021 to 31-DEC-2021.
10. Display all the records with Start_date 05-SEP-2020 and End_date 04-SEP-2022.
11. Count and Display all the records of all the vehicles which are not COMMERTIAL.
12. Display all the records for BIKE and SCOOTER insurance.
13. Display distinct customer_id and name .
14. Display the type_of_vehicle, reg_no of all the vehicles with customer_id = 2BM45.
15. Display all the vehicles without reg_no.
16. Update the reg_no of SINDHU with KA55LK2956 and display .
17. Sort all the records according to PREMIUM.
18. Display the PREMIUM for the vehicle with policy_no 249870.
19. There was a name transfer for the vehicle with reg_no KA41KL2589
Change the below details only and display:
 - Name: Rama
 - Customer_id: 2PO59
20. Delete entry with customer_id 2BM45 and policy_no 854621.

SOLUTIONS

1. Add End_date attribute to the table of type DATE.

```
ALTER table POLICY add End_date DATE;
```

2. Insert the following details into the table.

```
INSERT into POLICY values('1ST24','Ramya','Car','PVT','KA05HJ1234',645218,10000,'30-MAR-2020','29-MAR-2021');
INSERT into POLICY values('2BM45','Aniketh','Car','PVT','KA41GG4567',854621,6000,'15-AUG-2020','14-AUG-2022');
INSERT into POLICY values('2BM45','Aniketh','Bike','PVT','KA41KL2589',254136,2500,'15-AUG-2020','14-AUG-2022');
INSERT into POLICY values('5FD78','Anusha','Scooter','PVT','KA05MM7496',456218,2000,'13-FEB-2020','12-FEB-2023');
INSERT into POLICY values('2XY11','Amogh','Truck','COM','KA01HH0052',234689,20000,'20-APR-2020','19-APR-2025');
INSERT into POLICY values('6CV59','Nithin','Bus','COM','KA02FX0012',912345,25000,'02-JUN-2020','01-JUN-2025');
INSERT into POLICY values('9RT32','Mohan','Auto','COM','KA51JJ4523',198763,4000,'22-OCT-2020','21-OCT-2023');
INSERT into POLICY values('7KH57','Indira','Car','PVT','NULL',500124,9000,'05-SEP-2020','04-SEP-2022');
INSERT into POLICY values('8EE23','Vikram','Bike','PVT','KA56GJ2156',520048,2750,'11-NOV-2020','10-NOV-2023');
INSERT into POLICY values('8EE23','Vikram','Scooter','PVT','KA56KJ5214',630891,1800,'22-OCT-2020','21-OCT-2023');
INSERT into POLICY values('8EE23','Vikram','Car','PVT','KA56FG7894',479600,12000,'05-SEP-2020','04-SEP-2022');
INSERT into POLICY values('4IK89','Ananth','Bike','PVT','KA03GG9987',124896,4000,'11-NOV-2020','10-NOV-2023');
INSERT into POLICY values('7OO66','Anirudh','Truck','COM','KA21LL5012',249870,22000,'22-OCT-2020','21-OCT-2023');
INSERT into POLICY values('4ZZ99','Sanjeev','Auto','COM','KA44JK1023',998742,3800,'05-SEP-2020','04-SEP-2022');
INSERT into POLICY values('8ZS59','Sindu','Scooter','PVT','NULL',347059,2900,'21-MAR-2020','20-MAR-2021');
```

3. Display all the records of the POLICY table.

```
SELECT * from POLICY;
```

CUSTOMER_ID	NAME	TYPE_OF_VEHIVLE	VEHICLE_CLASS	REG_NO	POLICY_NO	PREMIUM	START_DATE	END_DATE
1ST24	Ramya	Car	PVT	KA05HJ1234	645218	10000	30-MAR-20	29-MAR-21
2BM45	Aniketh	Car	PVT	KA41GG4567	854621	6000	15-AUG-20	14-AUG-22
2BM45	Aniketh	Bike	PVT	KA41KL2589	254136	2500	15-AUG-20	14-AUG-22
5FD78	Anusha	Scooter	PVT	KA05MM7496	456218	2000	13-FEB-20	12-FEB-23
2XY11	Amogh	Truck	COM	KA01HH0052	234689	20000	20-APR-20	19-APR-25
6CV59	Nithin	Bus	COM	KA02FX0012	912345	25000	02-JUN-20	01-JUN-25
9RT32	Mohan	Auto	COM	KA51JJ4523	198763	4000	22-OCT-20	21-OCT-23
7KH57	Indira	Car	PVT	NULL	500124	9000	05-SEP-20	04-SEP-22
8EE23	Vikram	Bike	PVT	KA56GJ2156	520048	2750	11-NOV-20	10-NOV-23
8EE23	Vikram	Scooter	PVT	KA56KJ5214	630891	1800	22-OCT-20	21-OCT-23
8EE23	Vikram	Car	PVT	KA56FG7894	479600	12000	05-SEP-20	04-SEP-22
4IK89	Ananth	Bike	PVT	KA03GG9987	124896	4000	11-NOV-20	10-NOV-23
7OO66	Anirudh	Truck	COM	KA21LL5012	249870	22000	22-OCT-20	21-OCT-23
4ZZ99	Sanjeev	Auto	COM	KA44JK1023	998742	3800	05-SEP-20	04-SEP-22
8ZS59	Sindu	Scooter	PVT	NULL	347059	2900	21-MAR-20	20-MAR-21

4. Display customer_id, name and policy_no of all the records in the table.

SELECT Customer_id,Name,Policy_no from POLICY;

CUSTOMER_ID	NAME	POLICY_NO
1ST24	Ramya	645218
2BM45	Aniketh	854621
2BM45	Aniketh	254136
5FD78	Anusha	456218
2XY11	Amogh	234689
6CV59	Nithin	912345
9RT32	Mohan	198763
7KH57	Indira	500124
8EE23	Vikram	520048
8EE23	Vikram	630891
8EE23	Vikram	479600
4IK89	Ananth	124896
7OO66	Anirudh	249870
4ZZ99	Sanjeev	998742
8ZS59	Sindu	347059

5. Display details of all who has taken a CAR insurance .

```
SELECT * from POLICY where Type_of_vehicle='Car';
```

CUSTOMER_ID	NAME	TYPE_OF_VEHIVLE	VEHICLE_CLASS	REG_NO	POLICY_NO	PREMIUM	START_DATE	END_DATE
1ST24	Ramya	Car	PVT	KA05HJ1234	645218	10000	30-MAR-20	29-MAR-21
2BM45	Aniketh	Car	PVT	KA41GG4567	854621	6000	15-AUG-20	14-AUG-22
7KH57	Indira	Car	PVT	NULL	500124	9000	05-SEP-20	04-SEP-22
8EE23	Vikram	Car	PVT	KA56FG7894	479600	12000	05-SEP-20	04-SEP-22

6. Display the count of COMMERTIAL vehicles

```
SELECT COUNT(Vehicle_class) from POLICY where Vehicle_class='COM';
```

COUNT(VEHICLE_CLASS)
5

7. Display all records with PREMIUM greater than or equal to 10,000.

```
SELECT * from POLICY where PREMIUM>=10000;
```

CUSTOMER_ID	NAME	TYPE_OF_VEHICLE	VEHICLE_CLASS	REG_NO	POLICY_NO	PREMIUM	START_DATE	END_DATE
1ST24	Ramya	Car	PVT	KA05HJ1234	645218	10000	30-MAR-20	29-MAR-21
2XY11	Amogh	Truck	COM	KA01HH0052	234689	20000	20-APR-20	19-APR-25
6CV59	Nithin	Bus	COM	KA02FX0012	912345	25000	02-JUN-20	01-JUN-25
8EE23	Vikram	Car	PVT	KA56FG7894	479600	12000	05-SEP-20	04-SEP-22
7OO66	Anirudh	Truck	COM	KA21LL5012	249870	22000	22-OCT-20	21-OCT-23

8. Display all the records with NAME as Vikram and calculate the SUM of his premiums.

```
SELECT * from POLICY where name='Vikram';
```

```
SELECT SUM(premium) from POLICY where name='Vikram';
```

CUSTOMER_ID	NAME	TYPE_OF_VEHICLE	VEHICLE_CLASS	REG_NO	POLICY_NO	PREMIUM	START_DATE	END_DATE
8EE23	Vikram	Bike	PVT	KA56GJ2156	520048	2750	11-NOV-20	10-NOV-23
8EE23	Vikram	Scooter	PVT	KA56KJ5214	630891	1800	22-OCT-20	21-OCT-23
8EE23	Vikram	Car	PVT	KA56FG7894	479600	12000	05-SEP-20	04-SEP-22

9. Display all the records with End_date between 01-JAN-2021 to 31-DEC-2021.

SELECT * from POLICY where End_date >='01-JAN-2021' and End_date<='31-DEC-2021';

CUSTOMER_ID	NAME	TYPE_OF_VEHICLE	VEHICLE_CLASS	REG_NO	POLICY_NO	PREMIUM	START_DATE	END_DATE
1ST24	Ramya	Car	PVT	KA05HJ1234	645218	10000	30-MAR-20	29-MAR-21
8ZS59	Sindu	Scooter	PVT	NULL	347059	2900	21-MAR-20	20-MAR-21

10. Display all the records with Start_date 05-SEP-2020 and End_date 04-SEP-2022.

SELECT * from POLICY where Start_date=' 05-SEP-2020' and End_date=' 04-SEP-2022';

CUSTOMER_ID	NAME	TYPE_OF_VEHICLE	VEHICLE_CLASS	REG_NO	POLICY_NO	PREMIUM	START_DATE	END_DATE
7KH57	Indira	Car	PVT	NULL	500124	9000	05-SEP-20	04-SEP-22
8EE23	Vikram	Car	PVT	KA56FG7894	479600	12000	05-SEP-20	04-SEP-22
4ZZ99	Sanjeev	Auto	COM	KA44JK1023	998742	3800	05-SEP-20	04-SEP-22

11. Count and Display all the records of all the vehicles which are not COMMERTIAL.

SELECT COUNT(Vehicle_class) from POLICY where Vehicle_class!='COM';

SELECT * from POLICY where Vehicle_class!='COM';

COUNT(VEHICLE_CLASS)
10

CUSTOMER_ID	NAME	TYPE_OF_VEHICLE	VEHICLE_CLASS	REG_NO	POLICY_NO	PREMIUM	START_DATE	END_DATE
1ST24	Ramya	Car	PVT	KA05HJ1234	645218	10000	30-MAR-20	29-MAR-21
2BM45	Aniketh	Car	PVT	KA41GG4567	854621	6000	15-AUG-20	14-AUG-22
2BM45	Aniketh	Bike	PVT	KA41KL2589	254136	2500	15-AUG-20	14-AUG-22
5FD78	Anusha	Scooter	PVT	KA05MM7496	456218	2000	13-FEB-20	12-FEB-23
7KH57	Indira	Car	PVT	NULL	500124	9000	05-SEP-20	04-SEP-22
8EE23	Vikram	Bike	PVT	KA56GJ2156	520048	2750	11-NOV-20	10-NOV-23
8EE23	Vikram	Scooter	PVT	KA56KJ5214	630891	1800	22-OCT-20	21-OCT-23
8EE23	Vikram	Car	PVT	KA56FG7894	479600	12000	05-SEP-20	04-SEP-22
4IK89	Ananth	Bike	PVT	KA03GG9987	124896	4000	11-NOV-20	10-NOV-23
8ZS59	Sindu	Scooter	PVT	NULL	347059	2900	21-MAR-20	20-MAR-21

12.Display all the records for BIKE and SCOOTER insurance.

SELECT * from POLICY where Type_of_vehicle='Bike' or Type_of_vehicle='Scooter';

CUSTOMER_ID	NAME	TYPE_OF_VEHICLE	VEHICLE_CLASS	REG_NO	POLICY_NO	PREMIUM	START_DATE	END_DATE
2BM45	Aniketh	Bike	PVT	KA41KL2589	254136	2500	15-AUG-20	14-AUG-22
5FD78	Anusha	Scooter	PVT	KA05MM7496	456218	2000	13-FEB-20	12-FEB-23
8EE23	Vikram	Bike	PVT	KA56GJ2156	520048	2750	11-NOV-20	10-NOV-23
8EE23	Vikram	Scooter	PVT	KA56KJ5214	630891	1800	22-OCT-20	21-OCT-23
4IK89	Ananth	Bike	PVT	KA03GG9987	124896	4000	11-NOV-20	10-NOV-23
8ZS59	Sindu	Scooter	PVT	NULL	347059	2900	21-MAR-20	20-MAR-21

13. Display distinct customer_id and name .

SELECT DISTINCT customer_id,name from POLICY;

CUSTOMER_ID	NAME
7KH57	Indira
4ZZ99	Sanjeev
8ZS59	Sindu
2BM45	Aniketh
5FD78	Anusha
1ST24	Ramya
6CV59	Nithin
8EE23	Vikram
4IK89	Ananth
7OO66	Anirudh
2XY11	Amogh
9RT32	Mohan

14. Display the type_of_vehicle,reg_no of all the vehicles with customer_id = 2BM45.

SELECT type_of_vehicle,reg_no from POLICY where Customer_id='2BM45';

TYPE_OF_VEHICLE	REG_NO
Car	KA41GG4567
Bike	KA41KL2589

15. Display all the vehicles without reg_no.

SELECT * from POLICY where reg_no=NULL;

CUSTOMER_ID	NAME	TYPE_OF_VEHICLE	VEHICLE_CLASS	REG_NO	POLICY_NO	PREMIUM	START_DATE	END_DATE
7KH57	Indira	Car	PVT	NULL	500124	9000	05-SEP-20	04-SEP-22
8ZS59	Sindu	Scooter	PVT	NULL	347059	2900	21-MAR-20	20-MAR-21

16. Update the reg_no of SINDHU with KA55LK2956 and display .

UPDATE POLICY SET Reg_no='KA55LK2956' where NAME='Sindu';

SELECT * from POLICY where Reg_no='KA55LK2956';

CUSTOMER_ID	NAME	TYPE_OF_VEHICLE	VEHICLE_CLASS	REG_NO	POLICY_NO	PREMIUM	START_DATE	END_DATE
8ZS59	Sindu	Scooter	PVT	KA55LK2956	347059	2900	21-MAR-20	20-MAR-21

17. Sort all the records according to PREMIUM.

SELECT * from POLICY ORDER BY premium ASC;

CUSTOMER_ID	NAME	TYPE_OF_VEHICLE	VEHICLE_CLASS	REG_NO	POLICY_NO	PREMIUM	START_DATE	END_DATE
8EE23	Vikram	Scooter	PVT	KA56KJ5214	630891	1800	22-OCT-20	21-OCT-23
5FD78	Anusha	Scooter	PVT	KA05MM7496	456218	2000	13-FEB-20	12-FEB-23
2BM45	Aniketh	Bike	PVT	KA41KL2589	254136	2500	15-AUG-20	14-AUG-22
8EE23	Vikram	Bike	PVT	KA56GJ2156	520048	2750	11-NOV-20	10-NOV-23
8ZS59	Sindu	Scooter	PVT	KA55LK2956	347059	2900	21-MAR-20	20-MAR-21
4ZZ99	Sanjeev	Auto	COM	KA44JK1023	998742	3800	05-SEP-20	04-SEP-22
4IK89	Ananth	Bike	PVT	KA03GG9987	124896	4000	11-NOV-20	10-NOV-23
9RT32	Mohan	Auto	COM	KA51JJ4523	198763	4000	22-OCT-20	21-OCT-23
2BM45	Aniketh	Car	PVT	KA41GG4567	854621	6000	15-AUG-20	14-AUG-22
7KH57	Indira	Car	PVT	NULL	500124	9000	05-SEP-20	04-SEP-22
1ST24	Ramya	Car	PVT	KA05HJ1234	645218	10000	30-MAR-20	29-MAR-21
8EE23	Vikram	Car	PVT	KA56FG7894	479600	12000	05-SEP-20	04-SEP-22
2XY11	Amogh	Truck	COM	KA01HH0052	234689	20000	20-APR-20	19-APR-25
7OO66	Anirudh	Truck	COM	KA21LL5012	249870	22000	22-OCT-20	21-OCT-23
6CV59	Nithin	Bus	COM	KA02FX0012	912345	25000	02-JUN-20	01-JUN-25

18. Display the PREMIUM for the vehicle with policy_no 249870.

SELECT premium from POLICY where policy_no = 249870;

PREMIUM
22000

19. There was a name transfer for the vehicle with reg_no KA41KL2589

Change the below details only and display:

- Name: Rama
- Customer_id: 2PO59

```
UPDATE POLICY set Customer_id='2PO59',Name='Rama' where reg_no='KA41KL2589';  
SELECT * from POLICY where reg_no='KA41KL2589';
```

CUSTOMER_ID	NAME	TYPE_OF_VEHICLE	VEHICLE_CLASS	REG_NO	POLICY_NO	PREMIUM	START_DATE	END_DATE
2PO59	Rama	Bike	PVT	KA41KL2589	254136	2500	15-AUG-20	14-AUG-22

20. Delete entry with customer_id 2BM45 and policy_no 854621.

```
DELETE from POLICY where customer_id= '2BM45' and policy_no='854621';
```

```
Select * from POLICY;
```

CUSTOMER_ID	NAME	TYPE_OF_VEHICLE	VEHICLE_CLASS	REG_NO	POLICY_NO	PREMIUM	START_DATE	END_DATE
1ST24	Ramya	Car	PVT	KA05HJ1234	645218	10000	30-MAR-20	29-MAR-21
2PO59	Rama	Bike	PVT	KA41KL2589	254136	2500	15-AUG-20	14-AUG-22
5FD78	Anusha	Scooter	PVT	KA05MM7496	456218	2000	13-FEB-20	12-FEB-23
2XY11	Amogh	Truck	COM	KA01HH0052	234689	20000	20-APR-20	19-APR-25
6CV59	Nithin	Bus	COM	KA02FX0012	912345	25000	02-JUN-20	01-JUN-25
9RT32	Mohan	Auto	COM	KA51JJ4523	198763	4000	22-OCT-20	21-OCT-23
7KH57	Indira	Car	PVT	NULL	500124	9000	05-SEP-20	04-SEP-22
8EE23	Vikram	Bike	PVT	KA56GJ2156	520048	2750	11-NOV-20	10-NOV-23
8EE23	Vikram	Scooter	PVT	KA56KJ5214	630891	1800	22-OCT-20	21-OCT-23
8EE23	Vikram	Car	PVT	KA56FG7894	479600	12000	05-SEP-20	04-SEP-22
4IK89	Ananth	Bike	PVT	KA03GG9987	124896	4000	11-NOV-20	10-NOV-23
7OO66	Anirudh	Truck	COM	KA21LL5012	249870	22000	22-OCT-20	21-OCT-23
4ZZ99	Sanjeev	Auto	COM	KA44JK1023	998742	3800	05-SEP-20	04-SEP-22
8ZS59	Sindu	Scooter	PVT	KA55LK2956	347059	2900	21-MAR-20	20-MAR-21