

# DATABASE MANGEMENT SYSTEM

## MINORS

### LAB -7

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SECTION & DEPT : F & ECE

1. List of customers in Chennai who bought a bike before 2020 and customers in Bangalore who bought a bike in/after 2020

```
MariaDB [pes1ug20ec336]> select C.Cust_ID,C.FName,C.LName,C.Address,I.Date,B.Make,B.Model from customer C,Invoice I,Bike B where C.Cust_id = I.Cust_ID and B.VIN = I.VIN and C.address = 'Bangalore' and YEAR(I.Date) >= 2020 UNION select C.Cust_ID,C.FName,C.LName,C.address,I.Date,B.Make,B.Model from customer C,Invoice I,Bike B where C.Cust_id = I.Cust_ID and B.VIN = I.VIN and C.address = 'Chennai' and YEAR(I.Date) < 2020;
```

Cust_ID	FName	LName	Address	Date	Make	Model
202	Apoorva	Kishore	Bangalore	2021-09-10	Kawasaki	KLX230
201	Sai	Shankar	Chennai	2016-04-04	Honda	CB500X
203	Bala	Kumar	Chennai	2012-10-02	Suzuki	GSX-R1000

3 rows in set (0.001 sec)

```
MariaDB [pes1ug20ec336]>
```

2. Find customers in Kerala and Chennai with the same last name

```
MariaDB [pes1ug20ec336]> (select * from customer where address in ('Chennai','Kerala')) Intersect (select * from customer where Lname in (select Lname from customer group by Lname having count(*)>1));
```

Cust_ID	FName	LName	Address	Email	Mobile
203	Bala	Kumar	Chennai	balakumar@gmail.com	NULL
204	Chethan	Kumar	Kerala	chethankumar@gmail.com	NULL

2 rows in set (0.008 sec)

```
MariaDB [pes1ug20ec336]>
```

3. Find the bike model owned by customers in Bangalore and in Chennai

```
MariaDB [pes1ug20ec336]> select Model from Bike join invoice on bike.VIN = invoice.VIN join customer on invoice.cust_id = customer.cust_id where customer.address in ('Bangalore','Chennai');
```

Model
CB500X
Smax
KLX230
GSX-R1000

4 rows in set (0.004 sec)

```
MariaDB [pes1ug20ec336]>
```

4. Find customers in Chennai with last names other than the ones in Kerala

```
MariaDB [pes1ug20ec336]> select * from customer C1 where C1.address = 'Chennai' AND NOT EXISTS ( select * from customer C2 where C2.address = 'Kerala' and C2.LName = C1.LName);
```

Cust_ID	FName	LName	Address	Email	Mobile
201	Sai	Shankar	Chennai	saishankar@gmail.com	NULL

```
1 row in set (0.001 sec)
```

5. List of Customers who have not serviced their bike in 2022

```
MariaDB [pes1ug20ec336]> select * from service_ticket where year(date_del)<2022;
```

Service_ID	VIN	Cust_ID	Date_Rec	Date_Del	M_emp_id
405	300	203	2021-12-26	2021-12-27	601

```
1 row in set (0.001 sec)
```

```
MariaDB [pes1ug20ec336]> _
```