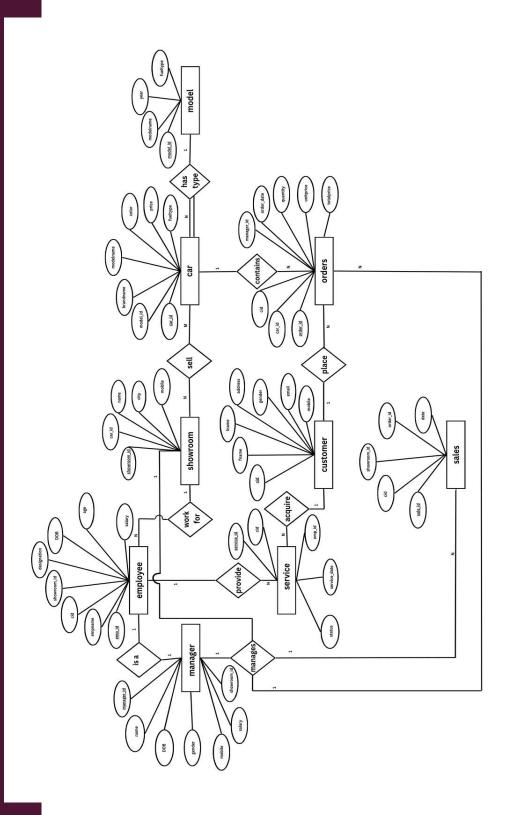
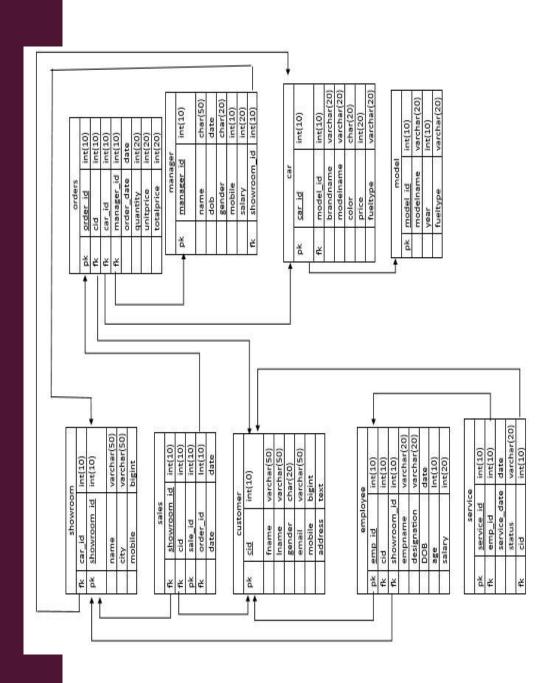
### INTRODUCTION

operations. This project aims to centralize and organize data related to car models, customer information, sales transactions and service showrooms is crucial for optimizing sales and enhancing customer (DBMS) to streamline and automate various aspects of showroom demonstration of leveraging a Database Management System In the realm of automotive retail, effective management of car satisfaction. This project endeavors to provide a practical

## ENTITY-RELATIONSHIP DIAGRAM



### SCHEMA-DIAGRAM



#### **TABLES**

#### Mode

model_id	modelname	year	fueltype
101	101   Camry   2002   Petrol	2002	Petrol
102	Glanza	2019	Petrol
103	Hilux	2022	Diesel
104	Alphard	2023	Petrol
105	Fortuner	2009	Diesel

#### Car

car_id	model_id	brandname	modelname	color	price	fueltype
200	101	Toyota Camry	Camry	Silver	4500000	Petrol
211	102	Toyota Glanza	Glanza	Red	1000000	Petrol
222	103	Toyota Hilux	CNG	Brown	000006	Diesel
233	103	Toyota Hilux	AMT	Red	1300000	Diesel
244	104	Toyota Alphard	DTC	White	1100000	Petrol
	The second secon					

#### Showroom

showroom_id   car_id	car_id	name	city	mobile
1	200	Bharath	Mangalore	9156437829
2	211	Renault	Mysore	9164743489
3	233	Bharath	Kerala	9154643499
ħ	233	Prestige	Mangalore	9158967423
5	244	Renault	Mangalore	9158963421

#### Manager

manager_id   name	name	B08	gender	gender   mobile	salary	salary   showroom_id
1111	Bharath	1999-05-09	Male	985645248	30000	T
2222	Ramya	1989-02-12	Female	945544558	32000	2
3333	Deepak		Male	945641958	30000	2
th th th	Dhanya	1998-08-01	Female	945685651	34000	3
5555	Rajesh	1992-03-11	Male	945895751	33000	7

#### Customer

	name	- <del></del>   lname	+		   mobile	
911	Kiran	Raj	Male	kiranraj@gmail.com	9564237841	Mangalore
912	Kavya Ramesh	S Rao	Female   Male	Kavyas@gmaıl.com   ramesh@gmail.com	9567856231 9567856874	Mysore   Kerala
914	Akash	Kumar	Male	akashk@gmail.com	9568574174	Udupi
912	Shreyas	퐀	Male	shreyas@gmail.com	9568574982	Putthur

90/	) )
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ī	j

emp_id   cid	cid	showroom_id   empname   designation	empname	designation	D0B	age	salary
551	911	1	Srujan	Service technician	1999-02-06	29	20000
552	913		Pranam	Finance Manager	1995-02-12	32	30000
553	912		Sharath	Administrative staff	1998-08-02	30	25000
554	914	T	Karan	Service technician	1998-11-05	37	35000
555	915		Charan	Service technician	1994-08-12	31	33000
556	914	3	Ganesh	Service technician	1994-12-12	31	28000

Service

service_id   cid	cid	emp_id	service_date	status
	911	551	2024-02-09	Done
2	912	551	2024-12-09	Pending
3	913	552	2024-09-09	Pending
ħ	914	553	2024-05-11	Done
5	915	554	2023-12-11	Done

Order

der_id	- Cig	car_id	manager_id	order_date	quantity	unitprice	totalprice
1100	911	200	1111	2023-03-11	$\leftarrow$	450000	450000
1200	912	211	1111	2023-03-01	1	200000	200000
1300	912	222	1111	2023-12-09	1	300000	300000

es	
ā	
ഗ	

sales_id	showroom_id	cid	order_id	date
202	1	911	1100	2023-09-04
303		912	1200	2024-12-01
†0†	1	913	1300	2024-01-11

❖ Display the car information based on the price in ascending order. Select \*from car ORDER BY price;

car_id	model_id	model_id   brandname	modelname   color	color	price	fueltype
222	103	Toyota Hilux	CNG	Brown	000006	Diesel
211	102	Toyota Glanza	ı   Glanza	Red	1000000	Petrol
244	104	Toyota Alphard	d DTC	White	1100000	Petrol
233	103	Toyota Hilux	AMT	Red	1300000	Diesel
200	101	Toyota Camry	Camry	Silver	4500000	Petrol

\* Find all employees who are working for one specific showroom. Select \*from employee where showroom\_id='1';

MariaDB [sho	showroor	n1]> select *fr	rom employe	<pre>.wroom1]&gt; select *from employee where showroom_id='1'</pre> .	1';		-
emp_id	cid	showroom_id		empname   designation	DOB	age	salary
551	911	1	Srujan	Service technician	1999-02-06	5 29	_
552	913	1	Pranam	Finance Manager	1995-02-12	:   32	30000
553	912	1	Sharath	Administrative staff	F   1998-08-02	30	25000
254	914	1	Karan	Service technician	1998-11-05	37	7   35000
555	915	1	Charan	Service technician	1994–08–12	.   31	33000
5 rows in se MariaDB [sho	set (0	rows in set (0.024 sec) riaDB [showroom1]> select *fr	om employe	t (0.024 sec) wroom1]> select *from employee where showroom_id='3'	3';		
emp_id	ıu	id   showroom_id   empname   designation		empname   designation	DOB	age	salary
556	914	3	3   Ganesh	Service technician   1994-12-12	1994-12-12	31	28000
							<u> </u>

Count the total number of orders made by the customers.

Select cid, COUNT(order\_id) as total\_orders FROM orders GROUP BY cid;

```
MariaDB [showroom1]> select cid, COUNT(order_id) as total_orders FROM orders GROUP BY cid;
                                                                                 total_orders
                                                                                   cid
```

❖ Display the customer details and their corresponding total spent amount, where the total spent amount for each customer is greater than 2500000.

Select cid, SUM(totalprice) AS total\_spent FROM orders GROUP BY cid HAVING SUM(total\_price)>2500000;

MariaDB [showroom1]> select cid,SUM(totalprice) AS total_spent FROM orders GROUP BY cid HAVING SUM(totalprice)>2500000; ++			
howroom1]> sele +	total_spent   	1500000	+
MariaDB [showroom	cid	911	

\* Retrieve the order id, order date and customer first and last name who have placed orders.

Select o.order\_id, o.order\_date, c.fname, c.lname FROM orders o JOIN customer c ON o.cid=c.cid;

MariaDB [showroom1]> select	o.ord	MariaDB [showroom1]> select o.order_id, o.order_date,c.fname,c.lname FROM orders o JOIN customer c ON o.cid=c.cid;
order_id	name	Iname
1100   2023-03-11   Kiran   Raj	iran	Raj
1200   2023-03-01   Ka	Kavya	S
1300   2023-12-09   Ka	Kavya	S
	+	++

Display the customer details who acquired the services from the showroom.

Select cid, fname, lname from customer where cid IN(select distinct cid from service where service\_date NOT IN(select service\_date from service where status='Pending')); lariaDB [showroom1]> select cid,fname,lname from customer where cid IN(select distinct cid from service where service\_date NOT IN(select service\_date from service where status='Pending')); cid fname \* List the details of car with their average price.

SELECT car\_id, brandname, modelname, AVG(price) from car GROUP BY car\_id;

brandname   modelname	
	(ce)
Toyota Glanza   Glanza   Toyota Hilux   CNG   Toyota Hilux   AMT	0.0000
Toyota Hilux   CNG   Toyota Hilux   AMT	).0000
Toyota Hilux   AMT	).0000
	).0000
244   Toyota Alphard   DTC   1100000.0000	0000 (

# \*Set the Before Trigger to calculate the total price of the car.

```
CREATE TRIGGER calculate_order_total BEFORE INSERT ON orders FOR EACH ROW
DELIMITER //
```

BEGIN SET NEW.totalprice = NEW.quantity \* NEW.unitprice;

END;

/

MariaDB [showroom1]> select *from or	owroom1	> select	MariaDB [showroom1]> select *from orders;				-
order_id	cid	car_id		order_date	quantity	quantity   unitprice   totalprice	totalprice
1100	911	200	1100   911   200   1111	2023-03-11	1	4500000	1 2023-03-11 1 4500000 4500000
1200	912	211	1111	2023-03-01	1	2000000	2000000
1300	912	222	1111	2023-12-09	1	3000000	300000
1400	913	233	1111	2024-09-04	2	1000000	2000000

❖ Create a stored procedure to insert a tuple into the employee table by checking the employee age. If employees age is less than 18 then display a message 'Not eligible to be an employee'.

DELIMITER // CREATE PROCEDURE agechecking(IN id int,IN age int)

-> BEGIN

-> IF age>=18THEN -> INSERT INTO employee(emp\_id,age)VALUES(id,age); -> ELSE

-> SELECT 'Not eligible to be an Employee' As Message;

-> END IF; -> END //

emp_id	cid	showroom_id   empname	empname	designation	DOB	age	salary
551	1	1	Srujan	Srujan   Service technician	1999-02-06	29	2-06   29   20000
552	913	1	Pranam	Finance Manager	1995-02-12	32	30000
553	912		Sharath	Administrative staff	1998-08-02	30	25000
554	914	1	Karan	Service technician	1998-11-05	37	35000
555	915	-1	Charan	Service technician	1994-08-12	31	33000
556	914	3	Ganesh	Service technician	1994-12-12	31	28000

MariaDB [showroom1] > CALL agechecking(557,42);

		-					
emp_id	cid	showroom_id   empname   designation	embuame	designation	DOB	age	salary
551	911	1	Srujan	1   Srujan   Service technician   1999–02–06   29   20000	1999-02-06	29	20000
552	913	1	Pranam	Finance Manager	1995-02-12	32	30000
553	912	1	Sharath	Administrative staff	1998-08-02	30	25000
254	914		Karan	Service technician	1998-11-05	37	35000
555	915	1 1	Charan	Service technician	1994-08-12	31	33000
256	914	3	Ganesh	Service technician	1994-12-12	31	28000
557	NULL	NOLL	NULL	NULL	NULL	42	NOLL

"AariaDB [showroom1]> CALL agechecking(558,17); Message

Not eligible to be an Employee row in set (0.000 sec)

## \*Create a view to display the car\_inventory information.

CREATE VIEW car\_inventory AS SELECT s.showroom\_id, c.car\_id, c.brandname, c.modelname, m.year, c.color, c.price, s.city FROM showroom s, car c, model m;

ariaDB [showroom1]> CREATE VIEW car\_inventory AS SELECT s.showroom\_id,c.car\_id,c.brandname,c.modelname,m.year,c.color,c.price,s.city FROM showroom s,car c,

Mangalore Mangalore Mangalore Mangalore Mangalore Mangalore ysore Kerala Mysore Kerala Kerala Mysore 1000000 4500000 000001 1500006 modelname | year | color | price Glanza Glanza Glanza Glanza ariaDB [showroom1]> select \*from car\_inventory; Glanza Camry Toyota Glanza Toyota Hilux Toyota Hilux Toyota Hilux Toyota Glanza Toyota Glanza Toyota Camry Toyota Camry Toyota Glanza Toyota Glanza odel m; uery OK, 0 rows affected (0.019 sec) Toyota Camry showroom\_id | car\_id | brandname