

# **CAR\_RENTAL\_SYSTEM**

## **ABSTRACT**

The car rental system project is designed to aid the rental company to enable renting of cars through online system. This enables admin can rent a vehicle that can be used by a customer. It is use to maintain the database for renting system with a car consisting driver with it.

The main purpose of this project is to require a temporary vehicle for people who don't have a vehicle, and for the people who don't know driving there is a personal driver with the rented car.

The car rental system makes booking of cars easy.

For bookings, the user has to provide information such as personal details with location.

## **OBJECTIVE**

The main objective of the car rental system is to manage the details of cars, customer, driver, employee (rental\_center).

It contains information on the sort of car they want to hire as well as the location.

## **STRUCTURE OF TABLE**

### **CUSTOMER TABLE STRUCTURE**

```
MariaDB [car_rental_system]> desc customer;
```

Field	Type	Null	Key	Default	Extra
cust_id	int(11)	NO	PRI	NULL	
fname	varchar(20)	YES		NULL	
lname	varchar(20)	YES		NULL	
gender	varchar(10)	YES		NULL	
age	int(11)	YES		NULL	
contact	varchar(20)	YES	UNI	NULL	
city	varchar(20)	YES		NULL	

```
7 rows in set (0.021 sec)
```

## RENTAL\_CENTER TABLE STRUCTURE

```
MariaDB [car_rental_system]> desc rental_center;
```

Field	Type	Null	Key	Default	Extra
emp_id	int(11)	NO	PRI	NULL	
emp_name	varchar(20)	YES		NULL	
gender	varchar(20)	YES		NULL	
age	int(11)	YES		NULL	
contact	varchar(10)	YES	UNI	NULL	
job_role	varchar(20)	YES		NULL	
emp_salary	int(11)	YES		NULL	

```
7 rows in set (0.023 sec)
```

## CARS TABLE STRUCTURE

```
MariaDB [car_rental_system]> desc cars;
```

Field	Type	Null	Key	Default	Extra
car_id	int(11)	NO	PRI	NULL	
car_number	varchar(20)	YES		NULL	
car_model	int(11)	YES		NULL	
body_type	varchar(20)	YES		NULL	
rent_prize	varchar(30)	YES		NULL	
driver_id	int(11)	YES	MUL	NULL	

```
6 rows in set (0.020 sec)
```

## DRIVER TABLE STRUCTURE

```

5 rows in set (0.020 sec)

MariaDB [car_rental_system]> desc driver;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| driver_id  | int(11)       | NO   | PRI | NULL    |       |
| d_name     | varchar(50)   | YES  |     | NULL    |       |
| age        | int(11)       | YES  |     | NULL    |       |
| d_salary   | int(11)       | YES  |     | NULL    |       |
| Driver_contact | varchar(20)  | YES  | UNI | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.029 sec)

```

## CONTENT OF TABLES

CUSTOMER DETAIL TABLE:- create table

customer(cust\_id,fname,lname,gender,age,contact,city).

```

MariaDB [car_rental_system]> select * from customer;
+-----+-----+-----+-----+-----+-----+-----+
| cust_id | fname    | lname    | gender | age | contact    | city    |
+-----+-----+-----+-----+-----+-----+-----+
| 1       | ravi     | shinde   | male   | 24  | 9988774455 | kalyan  |
| 2       | ravi     | shinde   | male   | 24  | 9914774455 | kalyan  |
| 3       | ramesh   | patil    | male   | 24  | 9912373355 | kalyan  |
| 4       | rajesh   | more     | male   | 21  | 992572255  | nahur   |
| 5       | ashok    | shinde   | male   | 22  | 9982364455 | titwala |
| 6       | yogesh   | saindane | male   | 24  | 9975774455 | mumbai  |
| 7       | bhushan  | more     | male   | 26  | 9966334455 | diva    |
| 8       | suresh   | shinde   | male   | 24  | 9911774455 | thane   |
| 9       | vaibhav  | varude   | male   | 25  | 9955224455 | shahad  |
| 10      | partiksha | shinde   | female | 24  | 9923774455 | kalyan  |
| 11      | nikita   | shinde   | female | 24  | 9988634455 | kalwa   |
| 12      | shrushti | shinde   | female | 24  | 9458774455 | thane   |
| 13      | mona     | shinde   | female | 29  | 9963774455 | kalyan  |
| 14      | sarika   | shinde   | female | 21  | 9996774455 | thane   |
| 15      | vaishali | shinde   | female | 23  | 9758774455 | kalyan  |
| 16      | nikita   | kumbharday | female | 24  | 9668774455 | thane   |
| 17      | amol     | kumbharday | female | 24  | 9878774455 | vasind  |
| 18      | sandeep  | taskar   | female | 24  | 9236774455 | byculla |
| 19      | prakash  | taskar   | female | 24  | 9975694455 | dadar   |
| 20      | amit     | rane     | male   | 23  | 9988175566 | kurla   |
+-----+-----+-----+-----+-----+-----+-----+
20 rows in set (0.002 sec)

```

RENTAL\_CENTER DETAIL

TABLE(emp\_id,emp\_name,gender,age,contact,job\_role,emp\_salary)

```
MariaDB [car_rental_system]> select * from rental_center;
```

emp_id	emp_name	gender	age	contact	job_role	emp_salary
51	jhon smith	male	30	9867152346	manager	35000
52	sarah goodes	female	28	8867152346	HOD	30000
53	jenny ablett	female	28	9967152346	junior	25000
54	michelle carry	female	30	9945152346	junior	24000
55	anthony hird	male	26	9988774455	staff	20000
56	jamie lockett	male	29	9655155346	senior	26000
57	mathew swann	male	27	9655154446	senior	28000
58	ruso hird	male	26	9911774455	staff	20000

```
8 rows in set (0.001 sec)
```

## CARS DETAIL

(car\_id,car\_number,car\_model,body\_type,rent\_prize,driver\_id)

```
MariaDB [car_rental_system]> select * from cars;
```

car_id	car_number	car_model	body_type	rent_prize	driver_id
21	MH05EF2244	2015	SUV	15rs/km	1001
22	MH05EF5566	2017	SUV	15rs/km	1002
23	MH05EF5678	2017	SEDAN	14rs/km	1003
24	MH04EF2278	2014	MUV	14rs/km	1004
25	MH04EF2345	2020	LUXURY	30rs/km	1005
26	MH04EF457	2021	LUXURY	30rs/km	1006
27	MH04EF4576	2021	SUV	25rs/km	1007
28	MH04EF7689	2019	HATCHBACK	19rs/km	1008
29	MH04EF1234	2020	HATCHBACK	16rs/km	1009
30	MH04EF3344	2016	HATCHBACK	13rs/km	1010

```
10 rows in set (0.001 sec)
```

DRIVER DETAIL(driver\_id,d\_name,age,d\_salary,Driver\_contact)



```

MariaDB [car_rental_system]> select * from driver;
+-----+-----+-----+-----+-----+
| driver_id | d_name | age | d_salary | Driver_contact |
+-----+-----+-----+-----+-----+
|      1001 |   raju |   30 |    20000 | 9875364210     |
|      1002 |  bunty |   30 |    15000 | 9875364201     |
|      1003 | rajesh |   28 |    20000 | 9875364200     |
|      1004 | suresh |   29 |    25000 | 9865364200     |
|      1005 | suresh |   29 |    30000 | 8865364200     |
|      1006 |  atul  |   26 |    25000 | 8865363200     |
|      1007 |  amit  |   25 |    25000 | 8865361200     |
|      1008 | nikhil |   23 |    20000 | 8865364500     |
|      1009 |  sumit |   24 |    20000 | 8865364600     |
|      1010 |  jayu  |   21 |    15000 | 8865364612     |
+-----+-----+-----+-----+-----+
10 rows in set (0.001 sec)

```

## SUBQURIES

1. Retrive the data fname,lname,city from customer table whose fname is ashok.

select fname,lname,city from customer where cust\_id=(select cust\_id from customer where fname='ashok');

```

+-----+-----+-----+
| fname | lname | city |
+-----+-----+-----+
| ashok | shinde | titwala |
+-----+-----+-----+
1 row in set (0.023 sec)

```

2. show all the details of drivers whose cars rent\_prize<='25/km'.

select \* from driver where driver\_id in(select driver\_id from cars where rent\_prize<='25rs/km');

```
MariaDB [car_rental_system]> select * from driver where driver_id in
(select driver_id from cars where rent_prize<='25rs/km');
+-----+-----+-----+-----+-----+
| driver_id | d_name | age | d_salary | Driver_contact |
+-----+-----+-----+-----+-----+
| 1001 | raju | 30 | 20000 | 9875364210 |
| 1002 | buntty | 30 | 15000 | 9875364201 |
| 1003 | rajesh | 28 | 20000 | 9875364200 |
| 1004 | suresh | 29 | 25000 | 9865364200 |
| 1007 | amit | 25 | 25000 | 8865361200 |
| 1008 | nikhil | 23 | 20000 | 8865364500 |
| 1009 | sumit | 24 | 20000 | 8865364600 |
| 1010 | jayu | 21 | 15000 | 8865364612 |
+-----+-----+-----+-----+-----+
```

3. show the fullname of customers whose live kalyan.

select distinct(concat(fname,' ',lname)) as fullname from customer where cust\_id in(select cust\_id from customer where city='kalyan');

```
+-----+
| fullname |
+-----+
| ravi shinde |
| ramesh patil |
| partiksha shinde |
| mona shinde |
| vaishali shinde |
+-----+
5 rows in set (0.001 sec)
```

## JOINS

select \* from customer inner join rental\_center on customer.gender=rental\_center.gender where emp\_salary>30000;

```
MariaDB [car_rental_system]> select * from customer inner join rental_center on customer.gender=rental_center.gender where emp_salary>30000;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| cust_id | fname | lname | gender | age | contact | city | emp_id | emp_name | gender | age | contact | job_role | emp_salary |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | ravi | shinde | male | 24 | 9988774455 | kalyan | 51 | jhon smith | male | 30 | 9867152346 | manager | 35000 |
| 2 | ravi | shinde | male | 24 | 9914774455 | kalyan | 51 | jhon smith | male | 30 | 9867152346 | manager | 35000 |
| 3 | ramesh | patil | male | 24 | 9912373355 | kalyan | 51 | jhon smith | male | 30 | 9867152346 | manager | 35000 |
| 4 | rajesh | more | male | 21 | 992572255 | nahur | 51 | jhon smith | male | 30 | 9867152346 | manager | 35000 |
| 5 | ashok | shinde | male | 22 | 9982364455 | titwala | 51 | jhon smith | male | 30 | 9867152346 | manager | 35000 |
| 6 | yogesh | saindane | male | 24 | 9975774455 | mumbai | 51 | jhon smith | male | 30 | 9867152346 | manager | 35000 |
| 7 | bhushan | more | male | 26 | 9966334455 | diva | 51 | jhon smith | male | 30 | 9867152346 | manager | 35000 |
| 8 | suresh | shinde | male | 24 | 9911774455 |thane | 51 | jhon smith | male | 30 | 9867152346 | manager | 35000 |
| 9 | vaibhav | varude | male | 25 | 9955224455 | shahad | 51 | jhon smith | male | 30 | 9867152346 | manager | 35000 |
| 20 | amit | rane | male | 23 | 9988175566 | kurla | 51 | jhon smith | male | 30 | 9867152346 | manager | 35000 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
10 rows in set (0.001 sec)
```

select c.fname,c.city,r.emp\_name,r.job\_role from customer c left join rental\_center r on c.gender=r.gender where r.job\_role='manager';

```
MariaDB [car_rental_system]> select c.fname,c.city,r.emp_name,r.job_role from customer
c left join rental_center r on c.gender=r.gender where r.job_role='manager';
```

fname	city	emp_name	job_role
ravi	kalyan	jhon smith	manager
ravi	kalyan	jhon smith	manager
ramesh	kalyan	jhon smith	manager
rajesh	nahur	jhon smith	manager
ashok	titwala	jhon smith	manager
yogesh	mumbai	jhon smith	manager
bhushan	diva	jhon smith	manager
suresh	thane	jhon smith	manager
vaibhav	shahad	jhon smith	manager
amit	kurla	jhon smith	manager

```
10 rows in set (0.001 sec)
```

select c.fname,c.city,r.emp\_name,r.job\_role from customer c right join rental\_center r on c.gender=r.gender where c.city='kalyan';

```
MariaDB [car_rental_system]> select c.fname,c.city,r.emp_name,r.job_role from customer
c right join rental_center r on c.gender=r.gender where c.city='kalyan';
```

fname	city	emp_name	job_role
ravi	kalyan	jhon smith	manager
ravi	kalyan	anthony hird	staff
ravi	kalyan	jamie lockett	senior
ravi	kalyan	mathew swann	senior
ravi	kalyan	ruso hird	staff
ravi	kalyan	jhon smith	manager
ravi	kalyan	anthony hird	staff
ravi	kalyan	jamie lockett	senior
ravi	kalyan	mathew swann	senior
ravi	kalyan	ruso hird	staff
ramesh	kalyan	jhon smith	manager
ramesh	kalyan	anthony hird	staff
ramesh	kalyan	jamie lockett	senior
ramesh	kalyan	mathew swann	senior
ramesh	kalyan	ruso hird	staff
partiksha	kalyan	sarah goodes	HOD
partiksha	kalyan	jenny ablett	junior
partiksha	kalyan	richelle carry	junior
mona	kalyan	sarah goodes	HOD
mona	kalyan	jenny ablett	junior
mona	kalyan	richelle carry	junior
vaishali	kalyan	sarah goodes	HOD
vaishali	kalyan	jenny ablett	junior
vaishali	kalyan	richelle carry	junior

```
24 rows in set (0.002 sec)
```

THREE TABLE JOIN

select d.d\_name,d.age,c.fname,c.age,r.emp\_name,r.age from driver d inner join customer c on d.age=c.age inner join rental\_center r on c.gender=r.gender limit 10;

```
MariaDB [car_rental_system]> select d.d_name,d.age,c.fname,c.age,r.emp_name,r.age from driver d inner join customer c on d.age=c.age inner join rental_center r on c.gender=r.gender limit 10;
```

d_name	age	fname	age	emp_name	age
sumit	24	ravi	24	jhon smith	30
sumit	24	ravi	24	anthony hird	26
sumit	24	ravi	24	jamie lockett	29
sumit	24	ravi	24	mathew swann	27
sumit	24	ravi	24	ruso hird	26
sumit	24	ravi	24	jhon smith	30
sumit	24	ravi	24	anthony hird	26
sumit	24	ravi	24	jamie lockett	29
sumit	24	ravi	24	mathew swann	27
sumit	24	ravi	24	ruso hird	26

```
10 rows in set (0.001 sec)
```

## VIEWS

Show details of d\_salary,d\_name,age from driver table using view statement.

create view driverview as select d\_name,age,d\_salary from driver; select \* from driverview;

```
MariaDB [car_rental_system]> create view driverview as select d_name,age,d_salary from driver;
Query OK, 0 rows affected (0.010 sec)

MariaDB [car_rental_system]> select * from driverview;
```

d_name	age	d_salary
raju	30	20000
bunty	30	15000
rajesh	28	20000
suresh	29	25000
suresh	29	30000
atul	26	25000
amit	25	25000
nikhil	23	20000
sumit	24	20000
jayu	21	15000

```
10 rows in set (0.069 sec)
```

Show the details

driver\_id,d\_salary,d\_name,emp\_id,emp\_name,emp\_salary. create view V1 as select d.driver\_id,d.d\_name,d.d\_salary,e.emp\_id,e.emp\_name,e.emp\_salary from driver d,rental\_center e where d.d\_salary=e.emp\_salary; select \* from V1;



```
MariaDB [car_rental_system]> select * from V1;
```

driver_id	d_name	d_salary	emp_id	emp_name	emp_salary
1001	raju	20000	55	anthony hird	20000
1001	raju	20000	58	ruso hird	20000
1003	rajesh	20000	55	anthony hird	20000
1003	rajesh	20000	58	ruso hird	20000
1004	suresh	25000	53	jenny ablett	25000
1005	suresh	30000	52	sarah goodes	30000
1006	atul	25000	53	jenny ablett	25000
1007	amit	25000	53	jenny ablett	25000
1008	nikhil	20000	55	anthony hird	20000
1008	nikhil	20000	58	ruso hird	20000
1009	sumit	20000	55	anthony hird	20000
1009	sumit	20000	58	ruso hird	20000

```
12 rows in set (0.011 sec)
```

## ER DIAGRAM CAR RENTAL SYSTEM

