

Bike_dealer management system.

Introduction:

A bike dealership, sell new bikes of honda company of various brands at retail level to customers.

It employs and maintains employment details of automobile salespersons, clerical people, sales executive and managers to sell new vehicles.

Dealership maintains all the records of all customers includes their name, address, contact details, etc.

and details of used and new bikes which includes its model name, Also, they keep records of payments done by customer.

Description:

The dealer has five selling channels of honda company. Various models of channels are available for customers. For representation of bikes specifications, dealer have to maintain the details about model code, colors available in each model, stock and price etc.

There are mainly three roles in working position sales persons, management persons and clerical persons. Whose employee details like id, name, contact and address details, email address, identity proofs like PAN, etc. joining date and salary.

When customer buy bikes from the dealer, he has to keep records of each purchase which includes unique booking id, unique customer id, bike details like model number, color, price of bikes, type of purchase, payment mode and transaction details. In order to keep records of transaction details

dealer need to maintain bank name, date of transaction, transaction id and type of transaction for further use.

These are the following entities that are related to bike_dealer.

- Employee
- Customers
- Bikes
- Bike_colour
- Bike_booking
- Trans_details

1.employee and its attributes

- Emp_id int primary key
- Ename varchar(20)
- Job_title varchar(20)
- E_contact int
- E_email varchar(20)
- E_pan varchar(20)
- E_joiningdate varchar(20)
- E_salary int
- E_address varchar(20)

2.customers and its attributes

- cust_id int primary key
- cust_name varchar(50)
- cust_contact bigint(20)
- cust_pan varchar(50) unique
- cust_address1 varchar(50)
- cust_address2 varchar(50)

3.bikes and its attributes

- model_code varchar(40) primary key
- selling channel varchar(20)
- bike_price int
- bike_stock int

4.bike colour and its attributes

- bike_colour_code int
- bike_colour varchar(20)
- model_code varchar(40) foreign key

5.bike_booking and its attributes

- cust_id int primary key
- booking_id varchar(20)
- cust_name varchar(45)
- model_code varchar(40) foreign key
- booking_date varchar(50)
- bike_colour_code int foreign key
- payment_mode varchar(40)
- bike_amount int
- emp_id int
- delivery_status varchar(20)

6.trans_details and its attributes

- transaction_id varchar(20)
- t_date varchar(20)
- t_type varchar(20)
- t_bank varchar(20)
- t_amount int
- booking_id int

Tables Creation And Data Dictionary

Create database bike_dealer;

1) Create table employees;

```
employees | CREATE TABLE `employees` (  
  `emp_id` int(11) NOT NULL AUTO_INCREMENT,  
  `ename` varchar(50) DEFAULT NULL,  
  `job_title` varchar(50) DEFAULT NULL,  
  `e_contact` bigint(20) NOT NULL,  
  `e_email` varchar(50) NOT NULL,  
  `e_pan` varchar(45) DEFAULT NULL,  
  `e_joiningdate` date DEFAULT NULL,  
  `e_salary` int(11) DEFAULT NULL,  
  `e_addline` varchar(50) DEFAULT NULL,  
  PRIMARY KEY (`emp_id`),  
  UNIQUE KEY `e_email` (`e_email`),  
  UNIQUE KEY `e_pan` (`e_pan`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 |
```

Desc employees;

```
MariaDB [bike_dealer]> desc employess;  
ERROR 1146 (42S02): Table 'bike_dealer.employess' doesn't exist  
MariaDB [bike_dealer]> desc employees;  
+-----+-----+-----+-----+-----+-----+  
| Field | Type | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| emp_id | int(11) | NO | PRI | NULL | auto_increment |  
| ename | varchar(20) | YES | | NULL | |  
| job_title | varchar(20) | YES | | NULL | |  
| e_contact | int(11) | YES | | NULL | |  
| e_email | varchar(20) | YES | UNI | NULL | |  
| e_pan | varchar(20) | YES | UNI | NULL | |  
| e_joiningdate | varchar(20) | YES | | NULL | |  
| e_salary | int(11) | YES | | NULL | |  
| e_address | varchar(20) | YES | | NULL | |  
+-----+-----+-----+-----+-----+-----+  
9 rows in set (0.023 sec)
```

2) create table customers

```
| customers | CREATE TABLE `customers` (  
  `cust_id` int(11) NOT NULL AUTO_INCREMENT,  
  `cust_name` varchar(50) DEFAULT NULL,  
  `cust_contact` bigint(20) DEFAULT NULL,  
  `cust_pan` varchar(50) DEFAULT NULL,  
  `cust_address_1` varchar(50) DEFAULT NULL,  
  `cust_address_2` varchar(20) DEFAULT NULL,  
  PRIMARY KEY (`cust_id`),  
  UNIQUE KEY `cust_pan` (`cust_pan`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 |  
+-----+
```

Desc customers;

```
MariaDB [bike_dealer]> desc customers;  
+-----+  
| Field      | Type      | Null | Key | Default | Extra      |  
+-----+  
| cust_id    | int(11)   | NO   | PRI | NULL    | auto_increment |  
| cust_name  | varchar(50) | YES  |     | NULL    |              |  
| cust_contact | bigint(20) | YES  |     | NULL    |              |  
| cust_pan   | varchar(50) | YES  | UNI | NULL    |              |  
| cust_address_1 | varchar(50) | YES  |     | NULL    |              |  
| cust_address_2 | varchar(20) | YES  |     | NULL    |              |  
+-----+  
6 rows in set (0.020 sec)  
  
MariaDB [bike_dealer]>
```

3) create table bikes

```
| bikes | CREATE TABLE `bikes` (  
  `model_code` varchar(40) NOT NULL,  
  `selling_channel` varchar(20) DEFAULT NULL,  
  `bike_price` int(11) DEFAULT NULL,  
  `bike_stock` int(11) DEFAULT NULL,  
  PRIMARY KEY (`model_code`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 |  
+-----+  
1 row in set (0.004 sec)
```

Desc bikes

```
MariaDB [bike_dealer]> desc bikes;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| model_code     | varchar(40)   | NO   | PRI | NULL    |       |
| selling_channel | varchar(20)   | YES  |     | NULL    |       |
| bike_price     | int(11)       | YES  |     | NULL    |       |
| bike_stock     | int(11)       | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.024 sec)

MariaDB [bike_dealer]> _
```

4) create table Bike_colour

```
-----+
| bike_colour | CREATE TABLE `bike_colour` (
  `bike_colour_code` int(11) NOT NULL,
  `bike_colour` varchar(20) DEFAULT NULL,
  `model_code` varchar(40) DEFAULT NULL,
  PRIMARY KEY (`bike_colour_code`),
  KEY `model_code` (`model_code`),
  CONSTRAINT `bike_colour_ibfk_1` FOREIGN KEY (`model_code`) REFERENCES `bikes` (`model_code`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 |
+-----+
```

Desc bike_colour

```
MariaDB [bike_dealer]> desc bike_colour;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| bike_colour_code | int(11)       | NO   | PRI | NULL    |       |
| bike_colour      | varchar(20)   | YES  |     | NULL    |       |
| model_code       | varchar(40)   | YES  | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.022 sec)

MariaDB [bike_dealer]> _
```

5) create table bike_booking

```
| bike_booking | CREATE TABLE `bike_booking` (  
  `cust_id` int(11) NOT NULL AUTO_INCREMENT,  
  `booking_id` varchar(20) DEFAULT NULL,  
  `cust_name` varchar(45) DEFAULT NULL,  
  `model_code` varchar(40) DEFAULT NULL,  
  `booking_date` varchar(50) DEFAULT NULL,  
  `bike_colour_code` int(11) DEFAULT NULL,  
  `payment_mode` varchar(40) DEFAULT NULL,  
  `bike_amount` int(11) DEFAULT NULL,  
  `emp_id` int(11) DEFAULT NULL,  
  `delivery_status` varchar(20) DEFAULT NULL,  
  PRIMARY KEY (`cust_id`),  
  KEY `model_code` (`model_code`),  
  KEY `bike_colour_code` (`bike_colour_code`),  
  CONSTRAINT `bike_booking_ibfk_1` FOREIGN KEY (`model_code`) REFERENCES `bikes` (`model_code`) ON DELETE CASCADE ON UPDATE CASCADE,  
  CONSTRAINT `bike_booking_ibfk_2` FOREIGN KEY (`bike_colour_code`) REFERENCES `bike_colour` (`bike_colour_code`) ON DELETE CASCADE ON  
UPDATE CASCADE  
) ENGINE=InnoDB AUTO_INCREMENT=1209 DEFAULT CHARSET=utf8mb4 |
```

Desc bike_booking;

```
MariaDB [bike_dealer]> desc bike_booking;  
+-----+-----+-----+-----+-----+-----+  
| Field | Type | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| cust_id | int(11) | NO | PRI | NULL | auto_increment |  
| booking_id | varchar(20) | YES | | NULL | |  
| cust_name | varchar(45) | YES | | NULL | |  
| model_code | varchar(40) | YES | MUL | NULL | |  
| booking_date | varchar(50) | YES | | NULL | |  
| bike_colour_code | int(11) | YES | MUL | NULL | |  
| payment_mode | varchar(40) | YES | | NULL | |  
| bike_amount | int(11) | YES | | NULL | |  
| emp_id | int(11) | YES | | NULL | |  
| delivery_status | varchar(20) | YES | | NULL | |  
+-----+-----+-----+-----+-----+-----+  
10 rows in set (0.025 sec)
```

6) create table trans_details

```
| trans_details | CREATE TABLE `trans_details` (  
  `transaction_id` varchar(20) DEFAULT NULL,  
  `t_date` varchar(20) DEFAULT NULL,  
  `t_type` varchar(20) DEFAULT NULL,  
  `t_bank` varchar(20) DEFAULT NULL,  
  `T_amount` int(11) DEFAULT NULL,  
  `booking_id` int(11) DEFAULT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 |  
+-----+  
+-----+  
1 row in set (0.000 sec)
```

Desc trans_details

Query OK, 6 rows affected (0.002 sec)

MariaDB [bike_dealer]> desc trans_details;

Field	Type	Null	Key	Default	Extra
transaction_id	varchar(20)	YES		NULL	
t_date	varchar(20)	YES		NULL	
t_type	varchar(20)	YES		NULL	
t_bank	varchar(20)	YES		NULL	
T_amount	int(11)	YES		NULL	
booking_id	int(11)	YES		NULL	

6 rows in set (0.022 sec)

Inserting values in tables:

1) Employees

MariaDB [bike_dealer]> insert into employees(emp_id,ename,job_title,e_contact,e_email,e_pan,e_joiningdate,e_salary,e_address) values(01,'ajay jadhav','operation manager', 9011209527,'aj@gmail.com','hgvtu56545','15-06-2022',50000, 'rawalpada,dahisar');
Query OK, 1 row affected, 1 warning (0.012 sec)

MariaDB [bike_dealer]> insert into employees(emp_id,ename,job_title,e_contact,e_email,e_pan,e_joiningdate,e_salary,e_address) values(06,'vijay jadhav','sales manager', 8850215245,'vj@gmail.com','acsd52022','15-06-2022',30000, 'shivaji complex borivali');
Query OK, 1 row affected, 2 warnings (0.040 sec)

MariaDB [bike_dealer]> insert into employees(emp_id,ename,job_title,e_contact,e_email,e_pan,e_joiningdate,e_salary,e_address) values(03,'vikas suryawanshi','sales manager', 7850235642,'vkgmail.com','fghuk12356','10-05-2022',25000, 'pant nagar ghatkoper');
Query OK, 1 row affected, 1 warning (0.040 sec)

MariaDB [bike_dealer]> insert into employees(emp_id,ename,job_title,e_contact,e_email,e_pan,e_joiningdate,e_salary,e_address) values(03,'vikas suryawanshi','sales manager', 78502356, 'g@gmail.com', 'fghkk12352', '11-03-2022', 15000, 'shivaji road borivali');
ERROR 1062 (23000): Duplicate entry '3' for key 'PRIMARY'

MariaDB [bike_dealer]> insert into employees(emp_id,ename,job_title,e_contact,e_email,e_pan,e_joiningdate,e_salary,e_address) values(04,'ganesh jadhav','sales executive', 7850235645,'g@gmail.com','fghkk12352','11-03-2022',15000, 'shivaji road borivali');
Query OK, 1 row affected, 2 warnings (0.012 sec)

MariaDB [bike_dealer]> insert into employees(emp_id,ename,job_title,e_contact,e_email,e_pan,e_joiningdate,e_salary,e_address) values(05,'akshay sawant','branch manager', 9137514834,'ak@gmail.com','njdpb1520','15-02-2022',70000, 'sec-15 koperkhaireane');
Query OK, 1 row affected, 1 warning (0.040 sec)

MariaDB [bike_dealer]> insert into employees(emp_id,ename,job_title,e_contact,e_email,e_pan,e_joiningdate,e_salary,e_address) values(07,'swapnil sakpal','relationship manager', 9137514521,'sk@gmail.com','njdpk1521','14-02-2022',40000, 'sec-20 airoli');
Query OK, 1 row affected, 1 warning (0.040 sec)

MariaDB [bike_dealer]> insert into employees(emp_id,ename,job_title,e_contact,e_email,e_pan,e_joiningdate,e_salary,e_address) values(08,'sohan patil','sales executive', 9837514521,'sp@gmail.com','ndhdpk152','20-03-2022',25000, 'sec-20 airoli');
Query OK, 1 row affected, 1 warning (0.040 sec)

MariaDB [bike_dealer]> insert into employees(emp_id,ename,job_title,e_contact,e_email,e_pan,e_joiningdate,e_salary,e_address) values(08,'chandrakant jadhav','bike mechanic', 9837562151,'cj@gmail.com','ndhdp15254','21-04-2022',15000, 'sec-20 ghansoli');
ERROR 1062 (23000): Duplicate entry '8' for key 'PRIMARY'

MariaDB [bike_dealer]> insert into employees(emp_id,ename,job_title,e_contact,e_email,e_pan,e_joiningdate,e_salary,e_address) values(09,'chandrakant jadhav','bike mechanic', 9837562151,'cj@gmail.com','ndhdp15254','21-04-2022',15000, 'sec-20 ghansoli');
Query OK, 1 row affected, 1 warning (0.013 sec)


```
MariaDB [bike_dealer]> select * from employees;
```

emp_id	ename	job_title	e_contact	e_email	e_pan	e_joiningdate	e_salary	e_address
1	ajay jadhav	operation manager	2147483647	aj@gmail.com	hgvtu56545	15-06-2022	50000	rawalpada,dahisar
2	omkar sanas	sales executive	2147483647	os@gmail.com	nhgsj15642	20-05-2022	30000	datta pada,borivali
3	vikas suryawanshi	sales manager	2147483647	vk@gmail.com	fghuk12356	10-05-2022	25000	pant nagar ghatkoper
4	ganesh jadhav	sales executive	2147483647	gj@gmail.com	fghkkl12352	11-03-2022	15000	shivaji road borival
5	akshay sawant	branch manager	2147483647	ak@gmail.com	njdpp1520	15-02-2022	70000	sec-15 koperkhairane
6	viijay jadhav	sales manager	2147483647	vj@gmail.com	acsdf52022	15-06-2022	30000	shivaji complex bori
7	swapnil sakpal	relationship manager	2147483647	sk@gmail.com	njdpp1521	14-02-2022	40000	sec-20 airoli
8	sohan patil	sales executive	2147483647	sp@gmail.com	ndhdpk152	20-03-2022	25000	sec-20 airoli
9	chandrakant jadhav	bike mechanic	2147483647	cj@gmail.com	ndhdp15254	21-04-2022	15000	sec-20 ghansoli
10	suraj patole	sales manager	2147483647	sp1@gmail.com	nhgsj50642	24-04-2022	35000	shivaji chowk thane

```
10 rows in set (0.000 sec)
```

2) Customers

```
MariaDB [bike_dealer]> insert into customers(cust_id,cust_name,cust_contact,cust_pan,cust_address_1,cust_address_2) values(1203,'manish pandey',8945852607,'adhip51254','ram lila building house no-2','bhivandi');
Query OK, 1 row affected (0.012 sec)

MariaDB [bike_dealer]> insert into customers(cust_id,cust_name,cust_contact,cust_pan,cust_address_1,cust_address_2) values(1204,'satish shukla',8745852606,'acvfi51578','shivaji apartment karjat',null);
Query OK, 1 row affected (0.012 sec)

MariaDB [bike_dealer]> insert into customers(cust_id,cust_name,cust_contact,cust_pan,cust_address_1,cust_address_2) values(1205,'gopal thakur',9745862606,'ghvfi51789','house no-7 palghar',null);
Query OK, 1 row affected (0.001 sec)

MariaDB [bike_dealer]> insert into customers(cust_id,cust_name,cust_contact,cust_pan,cust_address_1,cust_address_2) values(1206,'amit soni',8945862678,'devfi51710','house no-8 nalasopara','satara');
ERROR 1054 (42S22): Unknown column 'satara' in 'field list'
MariaDB [bike_dealer]> insert into customers(cust_id,cust_name,cust_contact,cust_pan,cust_address_1,cust_address_2) values(1206,'amit soni',8945862678,'devfi51710','house no-8 nalasopara','satara');
Query OK, 1 row affected (0.040 sec)

MariaDB [bike_dealer]> insert into customers(cust_id,cust_name,cust_contact,cust_pan,cust_address_1,cust_address_2) values(1207,'pandurag jadhav',7381056210,'kevf151789','pantil chawl rawalpada','dahisar');
Query OK, 1 row affected (0.012 sec)

MariaDB [bike_dealer]> insert into customers(cust_id,cust_name,cust_contact,cust_pan,cust_address_1,cust_address_2) values(1208,'ashish pawar',9823154956,'aevgh89786','vedant apartment','borivali');
Query OK, 1 row affected (0.012 sec)

MariaDB [bike_dealer]> delete from customers where cust_id=1207;
Query OK, 1 row affected (0.013 sec)

MariaDB [bike_dealer]> insert into customers(cust_id,cust_name,cust_contact,cust_pan,cust_address_1,cust_address_2) values(1207,'pandurag jadhav',7381056210,'kevf151789','pantil chawl rawalpada','dahisar');
Query OK, 1 row affected (0.012 sec)
```

```
MariaDB [bike_dealer]> insert into customers(cust_id,cust_name,cust_contact,cust_pan,cust_address_1,cust_address_2) values(1201,'laxman sawant',9850212325,'ghdhi1254','A-02 abhishek resident..','kalyan');
Query OK, 1 row affected (0.013 sec)

MariaDB [bike_dealer]> insert into customers(cust_id,cust_name,cust_contact,cust_pan,cust_address_1,cust_address_2) values(1202,'sumit masurane',8845152607,'ghip52254','b-05 ak apartment','panvel');
Query OK, 1 row affected (0.013 sec)
```

```
MariaDB [bike_dealer]> select * from customers;
```

cust_id	cust_name	cust_contact	cust_pan	cust_address_1	cust_address_2
1201	laxman sawant	9850212325	ghdhi1254	A-02 abhishek resident..	kalyan
1202	sumit masurane	8845152607	ghip52254	b-05 ak apartment	panvel
1203	manish pandey	8945852607	adhip51254	ramlila building house no-2	bhivandi
1204	satish shukla	8745852606	acvfi51578	shivaji apartment karjat	NULL
1205	gopal thakur	9745862606	ghvfi51789	house no-7 palghar	NULL
1206	amit soni	8945862678	devfi51710	house no-8 nalasopara	satara
1207	pandurag jadhav	7381056210	kevf151789	patil chawl rawalpada	dahisar
1208	ashish pawar	9823154956	aevgh89786	vedant apartment	borivali

```
8 rows in set (0.000 sec)
```

3) Bikes

```
MariaDB [bike_dealer]> insert into bikes(model_code,selling_channel,bike_price,bike_stock) values('honda shine','honda',90000,10);
Query OK, 1 row affected (0.001 sec)

MariaDB [bike_dealer]> insert into bikes(model_code,selling_channel,bike_price,bike_stock) values('unicorn','honda',13000,5);
Query OK, 1 row affected (0.012 sec)

MariaDB [bike_dealer]> insert into bikes(model_code,selling_channel,bike_price,bike_stock) values('honda hornet','honda',13500,4);
Query OK, 1 row affected (0.012 sec)

MariaDB [bike_dealer]> insert into bikes(model_code,selling_channel,bike_price,bike_stock) values('honda activa 125','honda',82500,5);
Query OK, 1 row affected (0.012 sec)

MariaDB [bike_dealer]> insert into bikes(model_code,selling_channel,bike_price,bike_stock) values('honda levo','honda',80000,2);
Query OK, 1 row affected (0.040 sec)
```

```
MariaDB [bike_dealer]> select * from bikes;
```

model_code	selling_channel	bike_price	bike_stock
honda activa 125	honda	82500	5
honda hornet	honda	13500	4
honda levo	honda	80000	2
honda shine	honda	90000	10
unicorn	honda	13000	5

```
5 rows in set (0.000 sec)
```

4) Bike_colour_code

```

MariaDB [bike_dealer]> insert into bike_colour(bike_colour_code,bike_colour,model_code) values(67,'heavy greay metallic','honda activa 125');
Query OK, 1 row affected (0.013 sec)

MariaDB [bike_dealer]> insert into bike_colour(bike_colour_code,bike_colour,model_code) values(45,'black','unicorn');
Query OK, 1 row affected (0.040 sec)

MariaDB [bike_dealer]> insert into bike_colour(bike_colour_code,bike_colour,model_code) values(25,'reb metallic','honda levo');
Query OK, 1 row affected (0.012 sec)

MariaDB [bike_dealer]> insert into bike_colour(bike_colour_code,bike_colour,model_code) values(45,'black','honda levo');
ERROR 1062 (23000): Duplicate entry '45' for key 'PRIMARY'
MariaDB [bike_dealer]> insert into bike_colour(bike_colour_code,bike_colour,model_code) values(49, 'igneous black','honda levo');
Query OK, 1 row affected (0.040 sec)

MariaDB [bike_dealer]> insert into bike_colour(bike_colour_code,bike_colour,model_code) values(255, 'blue','honda levo');
Query OK, 1 row affected (0.012 sec)

MariaDB [bike_dealer]> insert into bike_colour(bike_colour_code,bike_colour,model_code) values(305, 'athletic blue','honda shine');
Query OK, 1 row affected (0.012 sec)

MariaDB [bike_dealer]> insert into bike_colour(bike_colour_code,bike_colour,model_code) values(102, 'matte axis grey','honda shine');
Query OK, 1 row affected (0.040 sec)

MariaDB [bike_dealer]> insert into bike_colour(bike_colour_code,bike_colour,model_code) values(103,'matte marvel blue','honda hornet');
Query OK, 1 row affected (0.012 sec)

MariaDB [bike_dealer]> insert into bike_colour(bike_colour_code,bike_colour,model_code) values(104,'matte black','honda hornet');
Query OK, 1 row affected (0.039 sec)

MariaDB [bike_dealer]> insert into bike_colour(bike_colour_code,bike_colour,model_code) values(109,'matte red','honda hornet');
Query OK, 1 row affected (0.012 sec)

```

```

+-----+-----+-----+
| bike_colour_code | bike_colour | model_code |
+-----+-----+-----+
| 25 | red metallic | honda levo |
| 45 | black | unicorn |
| 49 | igneous black | honda levo |
| 67 | heavy greay metallic | honda activa 125 |
| 102 | matte axis grey | honda shine |
| 103 | matte marvel blue | honda hornet |
| 104 | matte black | honda hornet |
| 109 | matte red | honda hornet |
| 110 | repsol | unicorn |
| 255 | blue | honda levo |
| 305 | athletic blue | honda shine |
+-----+-----+-----+
11 rows in set (0.000 sec)

```

5) Bike_booking

```

livery_status) values(1204,'satish shukla','honda hornet','09-04-2022',103,'cheque',135000,'delivered');
Query OK, 1 row affected (0.012 sec)

MariaDB [bike_dealer]> insert into bike_booking(cust_id,cust_name, model_code,booking_date,bike_colour_code,payment_mode,bike_amount,de
livery_status) values(1202,'sumit masurane','unicorn','16-06-2022',255,'cheque',130000,'booked');
Query OK, 1 row affected (0.012 sec)

MariaDB [bike_dealer]> delete from bike_booking where cust_id=1202;
Query OK, 1 row affected (0.012 sec)

MariaDB [bike_dealer]> insert into bike_booking(cust_id,cust_name, model_code,booking_date,bike_colour_code,payment_mode,bike_amount,de
livery_status) values(1202,'sumit masurane','unicorn','16-06-2022',110,'cheque',130000,'booked');
Query OK, 1 row affected (0.039 sec)

MariaDB [bike_dealer]> insert into bike_booking(cust_id,cust_name, model_code,booking_date,bike_colour_code,payment_mode,bike_amount,de
livery_status) values(1201,'laxman sawant','honda activa 125','20-05-2022',67,'cash',82000,'delivered');
Query OK, 1 row affected (0.012 sec)

MariaDB [bike_dealer]> insert into bike_booking(cust_id,cust_name, model_code,booking_date,bike_colour_code,payment_mode,bike_amount,de
livery_status) values(1205,'gopal thakur','honda hornet','21-06-2022',104,'emi',135000,'booked');
Query OK, 1 row affected (0.012 sec)

MariaDB [bike_dealer]> insert into bike_booking(cust_id,cust_name, model_code,booking_date,bike_colour_code,payment_mode,bike_amount,de
livery_status) values(1206,'amit soni','honda hornet','22-06-2022',109,'cheque',135000,'delivered');
Query OK, 1 row affected (0.012 sec)

MariaDB [bike_dealer]> insert into bike_booking(cust_id,cust_name, model_code,booking_date,bike_colour_code,payment_mode,bike_amount,de
livery_status) values(1207,'pandurang jadhav','honda levo','23-06-2022',255,'cheque',80000,'delivered');
Query OK, 1 row affected (0.012 sec)

MariaDB [bike_dealer]> insert into bike_booking(cust_id,cust_name, model_code,booking_date,bike_colour_code,payment_mode,bike_amount,de
livery_status) values(1208,'ashish pawar','honda shine','24-06-2022',305,'cash',90000,'booked');
Query OK, 1 row affected (0.012 sec)

```

```

MariaDB [bike_dealer]> select * from bike_booking;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| cust_id | booking_id | cust_name | model_code | booking_date | bike_colour_code | payment_mode | bike_amount | emp_id | delivery_status |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1201 | 101 | laxman sawant | honda activa 125 | 20-05-2022 | 67 | cash | 82000 | 1 | delivered |
| 1202 | 102 | sumit masurane | unicorn | 16-06-2022 | 110 | cheque | 130000 | 2 | booked |
| 1203 | 103 | manish pandey | honda shine | 15-06-2022 | 102 | cash | 90000 | 3 | booked |
| 1204 | 104 | satish shukla | honda hornet | 09-04-2022 | 103 | cheque | 135000 | 4 | delivered |
| 1205 | 105 | gopal thakur | honda hornet | 21-06-2022 | 104 | emi | 135000 | 5 | booked |
| 1206 | 106 | amit soni | honda hornet | 22-06-2022 | 109 | cheque | 135000 | 6 | delivered |
| 1207 | 107 | pandurang jadhav | honda levo | 23-06-2022 | 255 | cheque | 80000 | 7 | delivered |
| 1208 | 108 | ashish pawar | honda shine | 24-06-2022 | 305 | cash | 90000 | 1 | booked |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
8 rows in set (0.001 sec)

```

6) Trans_details:

```

MariaDB [bike_dealer]> insert into trans_details(transaction_id,t_date,t_type,t_bank,t_amount,booking_id) values('T20123451256','20-05-
2022','cash','state bank',82000,101),('T156542658894','16-06-2022','cheque','hdfc bank',130000,102),('T25648975632','15-06-2022','cash'
,'bank of india',90000,103),('T235656897412','09-04-2022','cheque','union bank',135000,104),('T23156987415','21-06-2022','emi','bank of
india',135000,105),('T26548932471','22-06-2022','cheque','punjab national bank',135000,106),('T15698732864','23-06-2022','cheque','sta
te bank',80000,107),('T26987456123','24-06-2022','cash','axis bank',90000,108);
Query OK, 8 rows affected (0.012 sec)
Records: 8 Duplicates: 0 Warnings: 0

```

```
MariaDB [bike_dealer]> select * from trans_details;
```

transaction_id	t_date	t_type	t_bank	T_amount	booking_id
T20123451256	20-05-2022	cash	NULL	82000	101
T156542658894	16-06-2022	cheque	hdfc bank	130000	102
T25648975632	15-06-2022	cash	NULL	90000	103
T235656897412	09-04-2022	cheque	union bank	135000	104
T23156987415	21-06-2022	emi	bank of india	135000	105
T26548932471	22-06-2022	cheque	punjab national bank	135000	106
T15698732864	23-06-2022	cheque	state bank	80000	107
T26987456123	24-06-2022	cash	NULL	90000	108

```
8 rows in set (0.000 sec)
```

- List of tables in database bike_dealer;

```
MariaDB [BIke_dealer]> show tables;
```

Tables_in_bike_dealer
bike_booking
bike_colour
bikes
customers
employees
trans_details

```
6 rows in set (0.001 sec)

MariaDB [BIke_dealer]>
```

Query

1) Display Cust_name, booking_id ,bike_amount, and delivery status in booking table

```
MariaDB [Bike_dealer]> select cust_name,booking_id,model_code,bike_amount,delivery_status from bike_booking;
```

cust_name	booking_id	model_code	bike_amount	delivery_status
laxman sawant	101	honda activa 125	82000	delivered
sumit masurane	102	unicorn	130000	booked
manish pandey	103	honda shine	90000	booked
satish shukla	104	honda hornet	135000	delivered
gopal thakur	105	honda hornet	135000	booked
amit soni	106	honda hornet	135000	delivered
pandurang jadhav	107	honda levo	80000	delivered
ashish pawar	108	honda shine	90000	booked

8 rows in set (0.000 sec)

```
MariaDB [Bike_dealer]>
```

2)Display only customer purchase model_code is honda hornet.

```
MariaDB [Bike_dealer]> select * from bike_booking where model_code='honda hornet';
```

cust_id	booking_id	cust_name	model_code	booking_date	bike_colour_code	payment_mode	bike_amount	emp_id	delivery_status
1204	104	satish shukla	honda hornet	09-04-2022	103	cheque	135000	4	delivered
1205	105	gopal thakur	honda hornet	21-06-2022	104	emi	135000	5	booked
1206	106	amit soni	honda hornet	22-06-2022	109	cheque	135000	6	delivered

3 rows in set (0.040 sec)

```
MariaDB [Bike_dealer]>
```

3)Display customer id 1201

```
MariaDB [BIke_dealer]> select * from customers having cust_id=1201;
```

cust_id	cust_name	cust_contact	cust_pan	cust_address_1	cust_address_2
1201	laxman sawant	9850212325	ghdhi1254	A-02 abhishek resident..	kalyan

1 row in set (0.001 sec)

```
MariaDB [BIke_dealer]> select * from customers having cust_id in(1201,1202,1203,1204);
```

cust_id	cust_name	cust_contact	cust_pan	cust_address_1	cust_address_2
1201	laxman sawant	9850212325	ghdhi1254	A-02 abhishek resident..	kalyan
1202	sumit masurane	8845152607	ghip52254	b-05 ak apartment	panvel
1203	manish pandey	8945852607	adhip51254	ramlila building house no-2	bhivandi
1204	satish shukla	8745852606	acvfi51578	shivaji apartment karjat	NULL

4 rows in set (0.000 sec)

4)Display maximun salary of each job_title.

```
MariaDB [BIke_dealer]> select job_title,max(e_salary) as maxsalary from employees group by job_title;
```

job_title	maxsalary
bike mechanic	15000
branch manager	70000
operation manager	50000
relationship manager	40000
sales executive	30000
sales manager	35000

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

```
MariaDB [BIke_dealer]>
```

5)display total count in each job_title.

```
MariaDB [BIke_dealer]> select job_title,count(*) as totalemployee from employees group by job_title;
```

job_title	totalemployee
bike mechanic	1
branch manager	1
operation manager	1
relationship manager	1
sales executive	3
sales manager	3

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

```
MariaDB [BIke_dealer]> _
```

6)Count the total number of customers from customers table.

```

MariaDB [bike_dealer]> select count(*) as customers_name from customers;
+-----+
| customers_name |
+-----+
|          8     |
+-----+
1 row in set (0.014 sec)

MariaDB [bike_dealer]> _

```

7)Display customer name,bike amount, and model code

```

MariaDB [BIke_dealer]> select cust_name,bike_amount,model_code from bike_booking;
+-----+-----+-----+
| cust_name | bike_amount | model_code |
+-----+-----+-----+
| laxman sawant | 82000 | honda activa 125 |
| sumit masurane | 130000 | unicorn |
| manish pandey | 90000 | honda shine |
| satish shukla | 135000 | honda hornet |
| gopal thakur | 135000 | honda hornet |
| amit soni | 135000 | honda hornet |
| pandurang jadhav | 80000 | honda levo |
| ashish pawar | 90000 | honda shine |
+-----+-----+-----+
8 rows in set (0.001 sec)

```

8)Display customer purchase honda levo bike.

```

MariaDB [BIke_dealer]> select * from bike_booking having model_code='honda levo';
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| cust_id | booking_id | cust_name | model_code | booking_date | bike_colour_code | payment_mode | bike_amount | emp_id | delivery_status |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1207 | 107 | pandurang jadhav | honda levo | 23-06-2022 | 255 | cheque | 80000 | 7 | delivered |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.001 sec)

MariaDB [BIke_dealer]> _

```


9)Find the total bikes_stock in bikes_table

```
MariaDB [bike_dealer]> select sum(bike_stock) as bikes_stock from bikes;
+-----+
| bikes_stock |
+-----+
|          26 |
+-----+
1 row in set (0.040 sec)

MariaDB [bike_dealer]> _
```

10)Display Whole data of the customers starting from LETTER A.

```
MariaDB [bike_dealer]> select * from customers where cust_name like 'a%';
+-----+-----+-----+-----+-----+-----+
| cust_id | cust_name | cust_contact | cust_pan | cust_address_1 | cust_address_2 |
+-----+-----+-----+-----+-----+-----+
| 1206 | amit soni | 8945862678 | devfi51710 | house no-8 nalasopara | satara |
| 1208 | ashish pawar | 9823154956 | aevgh89786 | vedant apartment | borivali |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.014 sec)
```

View

1)Create view view name is booking

```

MariaDB [BIke_dealer]> create view booking as select * from bike_booking;
Query OK, 0 rows affected (0.042 sec)

MariaDB [BIke_dealer]> select * from booking;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| cust_id | booking_id | cust_name | model_code | booking_date | bike_colour_code | payment_mode | bike_amount | emp_id | delivery_status |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1201 | 101 | laxman sawant | honda activa 125 | 20-05-2022 | 67 | cash | 82000 | 1 | delivered |
| 1202 | 102 | sumit masurane | unicorn | 16-06-2022 | 110 | cheque | 130000 | 2 | booked |
| 1203 | 103 | manish pandey | honda shine | 15-06-2022 | 102 | cash | 90000 | 3 | booked |
| 1204 | 104 | satish shukla | honda hornet | 09-04-2022 | 103 | cheque | 135000 | 4 | delivered |
| 1205 | 105 | gopal thakur | honda hornet | 21-06-2022 | 104 | emi | 135000 | 5 | booked |
| 1206 | 106 | amit soni | honda hornet | 22-06-2022 | 109 | cheque | 135000 | 6 | delivered |
| 1207 | 107 | pandurang jadhav | honda levo | 23-06-2022 | 255 | cheque | 80000 | 7 | delivered |
| 1208 | 108 | ashish pawar | honda shine | 24-06-2022 | 305 | cash | 90000 | 1 | booked |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
8 rows in set (0.001 sec)

```

Drop view booking;

```

MariaDB [BIke_dealer]> drop view booking;
Query OK, 0 rows affected (0.001 sec)

MariaDB [BIke_dealer]>

```

2)Create view view name is customers_name

```

MariaDB [bike_dealer]> create view customers_name as select * from customers;
Query OK, 0 rows affected (0.019 sec)

MariaDB [bike_dealer]> select * from customers_name;
+-----+-----+-----+-----+-----+-----+
| cust_id | cust_name | cust_contact | cust_pan | cust_address_1 | cust_address_2 |
+-----+-----+-----+-----+-----+-----+
| 1201 | laxman sawant | 9850212325 | ghdhi1254 | A-02 abhishek resident.. | kalyan |
| 1202 | sumit masurane | 8845152607 | ghip52254 | b-05 ak apartment | panvel |
| 1203 | manish pandey | 8945852607 | adhip51254 | ramlila building house no-2 | bhivandi |
| 1204 | satish shukla | 8745852606 | acvfi51578 | shivaji apartment karjat | NULL |
| 1205 | gopal thakur | 9745862606 | ghvfi51789 | house no-7 palghar | NULL |
| 1206 | amit soni | 8945862678 | devfi51710 | house no-8 nalasopara | satara |
| 1207 | pandurang jadhav | 7381056210 | kevf151789 | patil chawl rawalpada | dahisar |
| 1208 | ashish pawar | 9823154956 | aevgh89786 | vedant apartment | borivali |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.016 sec)

```

Drop view customers_name

```
MariaDB [bike_dealer]> drop view customers_name;  
Query OK, 0 rows affected (0.001 sec)  
  
MariaDB [bike_dealer]>
```

Joins

1) Show data bike_price, selling channel, bike_colour, bike_colour_code using Inner join...

```
MariaDB [bike_dealer]> select bike_price, selling_channel, bike_colour, bike_colour_code from bikes inner join bike_colour on bikes.model_code=bike_colour.model_code;  
+-----+-----+-----+-----+  
| bike_price | selling_channel | bike_colour | bike_colour_code |  
+-----+-----+-----+-----+  
| 80000 | honda | red metallic | 25 |  
| 130000 | honda | black | 45 |  
| 80000 | honda | igneous black | 49 |  
| 82000 | honda | heavy grey metallic | 67 |  
| 90000 | honda | matte axis grey | 102 |  
| 135000 | honda | matte marvel blue | 103 |  
| 135000 | honda | matte black | 104 |  
| 135000 | honda | matte red | 109 |  
| 130000 | honda | repsol | 110 |  
| 80000 | honda | blue | 255 |  
| 90000 | honda | athletic blue | 305 |  
+-----+-----+-----+-----+  
11 rows in set (0.001 sec)
```

2)show data bike_price,selling_channel,bike_stock using
left outer join

```
MariaDB [bike_dealer]> select bike_price,selling_channel,bike_colour bike_stock from bikes inner join bike_colour on bikes.model_code=
bike_colour.model_code;
```

bike_price	selling_channel	bike_stock
80000	honda	red metallic
130000	honda	black
80000	honda	igneous black
82000	honda	heavy greay metallic
90000	honda	matte axis grey
135000	honda	matte marvel blue
135000	honda	matte black
135000	honda	matte red
130000	honda	repsol
80000	honda	blue
90000	honda	athletic blue

11 rows in set (0.000 sec)

Conclusion:

- The main purpose of maintaining this database for the bike_dealer management system involved in booking and make it convenient for bikes and to maintain booking and make it and to

maintain the data about customers ,bikes and transaction details of customers.

- The speed of obtaining data will be fast.



