

PES UNIVERSITY

MINORS

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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PES1UG20EC336

1. CREATING A DATABASE

```
MariaDB [(none)]> create database PES1UG20EC336;  
Query OK, 1 row affected (0.002 sec)
```

```
MariaDB [(none)]> show databases;
```

Database
company
information_schema
mysql
performance_schema
pes1ug20ec336
phpmyadmin
test

```
7 rows in set (0.028 sec)
```

```
MariaDB [(none)]> use pes1ug20ec336
```

```
Database changed
```

```
MariaDB [pes1ug20ec336]> show tables;
```

```
Empty set (0.001 sec)
```

```
MariaDB [(none)]> create database PES1UG20EC336;  
Query OK, 1 row affected (0.002 sec)
```

```
MariaDB [(none)]> show databases;
```

Database
company
information_schema
mysql
performance_schema
pes1ug20ec336
phpmyadmin
test

```
7 rows in set (0.028 sec)
```

```
MariaDB [(none)]>
```

Creating tables

a) Creating table dealer

```
MariaDB [pes1ug20ec336]> desc dealer;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| dealer_id | int(11) | NO | PRI | NULL | |
| name | varchar(25) | YES | | NULL | |
| state | varchar(25) | YES | | NULL | |
| city | varchar(20) | YES | | NULL | |
| pin | int(11) | YES | | NULL | |
| street | varchar(20) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.025 sec)

MariaDB [pes1ug20ec336]> _
```

b) salesperson

```
MariaDB [pes1ug20ec336]> create table salesperson(s_emp_id int primary key,f_name varchar(20),l_name varchar(20),dealer_id int,foreign key(dealer_id) references dealer (dealer_id));
Query OK, 0 rows affected (0.042 sec)

MariaDB [pes1ug20ec336]> desc salesperson
-> ;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| s_emp_id | int(11) | NO | PRI | NULL | |
| f_name | varchar(20) | YES | | NULL | |
| l_name | varchar(20) | YES | | NULL | |
| dealer_id | int(11) | YES | MUL | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.013 sec)

MariaDB [pes1ug20ec336]>
```

c) Customer

```
MariaDB [pes1ug20ec336]> create table customer(cust_id int primary key,f_name varchar(20),l_name varchar(20),address varchar(100),email varchar(30));
Query OK, 0 rows affected (0.038 sec)

MariaDB [pes1ug20ec336]> desc customer;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| cust_id | int(11) | NO | PRI | NULL | |
| f_name | varchar(20) | YES | | NULL | |
| l_name | varchar(20) | YES | | NULL | |
| address | varchar(100) | YES | | NULL | |
| email | varchar(30) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.021 sec)

MariaDB [pes1ug20ec336]>
```

d) Bike

```
MariaDB [pes1ug20ec336]> create table bike(vin int primary key,make varchar(30),model varchar(30),reg_no varchar(10),y_o_m int,chasis_no varchar(20));
Query OK, 0 rows affected (0.030 sec)

MariaDB [pes1ug20ec336]> desc bike;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| vin | int(11) | NO | PRI | NULL | |
| make | varchar(30) | YES | | NULL | |
| model | varchar(30) | YES | | NULL | |
| reg_no | varchar(10) | YES | | NULL | |
| y_o_m | int(11) | YES | | NULL | |
| chasis_no | varchar(20) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.021 sec)

MariaDB [pes1ug20ec336]> _
```

e) service manager

```

MariaDB [peslug20ec336]> create table service_manager(m_emp_id int primary key,name varchar(25),f_name varchar(25),l_name varchar(25),no_of_bike_service int);
Query OK, 0 rows affected (0.030 sec)

MariaDB [peslug20ec336]> desc service_manager;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| m_emp_id | int(11) | NO | PRI | NULL | |
| name | varchar(25) | YES | | NULL | |
| f_name | varchar(25) | YES | | NULL | |
| l_name | varchar(25) | YES | | NULL | |
| no_of_bike_service | int(11) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.041 sec)

MariaDB [peslug20ec336]>

```

f). service ticket

```

MariaDB [peslug20ec336]> create table service_ticket(service_id int primary key,vin int,cust_id int,date_rec DATE,m_emp_id int,foreign key(vin) references bike(vin),foreign key(cust_id) references customer(cust_id),foreign key(m_emp_id) references service_manager(m_emp_id));
Query OK, 0 rows affected (0.037 sec)

MariaDB [peslug20ec336]> desc service_ticket;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| service_id | int(11) | NO | PRI | NULL | |
| vin | int(11) | YES | MUL | NULL | |
| cust_id | int(11) | YES | MUL | NULL | |
| date_rec | date | YES | | NULL | |
| m_emp_id | int(11) | YES | MUL | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.019 sec)

MariaDB [peslug20ec336]>

```

g) parts

```

MariaDB [peslug20ec336]> create table parts(p_id int primary key,description varchar(35),qty int,price DECIMAL(10,2),service_id int,foreign key(service_id) references service_ticket(service_id));
Query OK, 0 rows affected (0.038 sec)

MariaDB [peslug20ec336]> desc parts;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| p_id | int(11) | NO | PRI | NULL | |
| description | varchar(35) | YES | | NULL | |
| qty | int(11) | YES | | NULL | |
| price | decimal(10,2) | YES | | NULL | |
| service_id | int(11) | YES | MUL | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.019 sec)

MariaDB [peslug20ec336]>

```

h). invoice

```

MariaDB [peslug20ec336]> create table invoice(salesperson_id int,vin int,cust_id int,date DATE,total_bill decimal(10,2),primary key(salesperson_id,vin,cust_id),foreign key(vin) references bike(vin),foreign key(salesperson_id) references salesperson(s_emp_id),foreign key(cust_id) references customer(cust_id));
Query OK, 0 rows affected (0.030 sec)

MariaDB [peslug20ec336]> desc invoice;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| salesperson_id | int(11) | NO | PRI | NULL | |
| vin | int(11) | NO | PRI | NULL | |
| cust_id | int(11) | NO | PRI | NULL | |
| date | date | YES | | NULL | |
| total_bill | decimal(10,2) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.013 sec)

MariaDB [peslug20ec336]>

```

i). cust_phone

```

MariaDB [peslug20ec336]> create table cust_phone(cust_id int,phone_no varchar(10),primary key(cust_id,phone_no),foreign key(cust_id) references customer(cust_id));
Query OK, 0 rows affected (0.023 sec)

MariaDB [peslug20ec336]> desc cust_phone;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| cust_id | int(11) | NO | PRI | NULL | |
| phone_no | varchar(10) | NO | PRI | NULL | |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.016 sec)

MariaDB [peslug20ec336]>

```

modify as NOT null constraint

```
MariaDB [pes1ug20ec336]> alter table salesperson modify f_name varchar(20) not null,modify l_name varchar(20) not null;
Query OK, 0 rows affected (0.045 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [pes1ug20ec336]> desc salesperson;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| s_emp_id | int(11) | NO | PRI | NULL | |
| f_name | varchar(20) | NO | | NULL | |
| l_name | varchar(20) | NO | | NULL | |
| dealer_id | int(11) | YES | MUL | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.012 sec)

MariaDB [pes1ug20ec336]> _
```

add unique

```
MariaDB [pes1ug20ec336]> alter table bike add unique(vin);
Query OK, 0 rows affected (0.017 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [pes1ug20ec336]> desc bike;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| vin | int(11) | NO | PRI | NULL | |
| make | varchar(30) | YES | | NULL | |
| model | varchar(30) | YES | | NULL | |
| reg_no | varchar(10) | YES | | NULL | |
| y_O_m | int(11) | YES | | NULL | |
| chasis_no | varchar(20) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.016 sec)

MariaDB [pes1ug20ec336]> _
```

Check constraint to date

```
MariaDB [pes1ug20ec336]> alter table invoice add check(date>=2021);
Query OK, 0 rows affected (0.063 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [pes1ug20ec336]> desc incoice;
ERROR 1146 (42S02): Table 'pes1ug20ec336.incoice' doesn't exist
MariaDB [pes1ug20ec336]> desc invoice;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| salesperson_id | int(11) | NO | PRI | NULL | |
| vin | int(11) | NO | PRI | NULL | |
| cust_id | int(11) | NO | PRI | NULL | |
| date | date | YES | | NULL | |
| total_bill | decimal(10,2) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.015 sec)
```

Rename table

```
MariaDB [peslug20ec336]> rename table parts to acessories;
Query OK, 0 rows affected (0.044 sec)

MariaDB [peslug20ec336]> desc parts;
ERROR 1146 (42S02): Table 'peslug20ec336.parts' doesn't exist
MariaDB [peslug20ec336]> desc acessories;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| p_id       | int(11)       | NO   | PRI | NULL    |       |
| description | varchar(35)   | YES  |     | NULL    |       |
| qty        | int(11)       | YES  |     | NULL    |       |
| price      | decimal(10,2) | YES  |     | NULL    |       |
| service_id | int(11)       | YES  | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.008 sec)
```

Inserting values and truncating them

```
MariaDB [peslug20ec336]> insert into service_manager values(1,'ankith','shetty',49);
ERROR 1136 (21S01): Column count doesn't match value count at row 1
MariaDB [peslug20ec336]> insert into service_manager values(1,'ankith','R','shetty',49);
Query OK, 1 row affected (0.005 sec)

MariaDB [peslug20ec336]> insert into service_manager values(1,'saketh','s','shetty',26);
ERROR 1062 (23000): Duplicate entry '1' for key 'PRIMARY'
MariaDB [peslug20ec336]> insert into service_manager values(2,'saketh','s','shetty',26);
Query OK, 1 row affected (0.004 sec)

MariaDB [peslug20ec336]> insert into service_manager values(3,'lohith','k','shetty',65);
Query OK, 1 row affected (0.004 sec)

MariaDB [peslug20ec336]> select * from service_manager;
+-----+-----+-----+-----+-----+
| m_emp_id | name  | f_name | l_name | no_of_bike_service |
+-----+-----+-----+-----+-----+
| 1        | ankith | R      | shetty | 49                 |
| 2        | saketh | s      | shetty | 26                 |
| 3        | lohith | k      | shetty | 65                 |
+-----+-----+-----+-----+-----+
3 rows in set (0.001 sec)

MariaDB [peslug20ec336]> set foreign_key_checks=0;
Query OK, 0 rows affected (0.004 sec)

MariaDB [peslug20ec336]> truncate table service_manager;
Query OK, 0 rows affected (0.029 sec)

MariaDB [peslug20ec336]> select *from service manager;
ERROR 1146 (42S02): Table 'peslug20ec336.service' doesn't exist
MariaDB [peslug20ec336]> select *from service_manager;
Empty set (0.001 sec)

MariaDB [peslug20ec336]>
```

Drop table

```
MariaDB [pes1ug20ec336]> drop table service_manager;
Query OK, 0 rows affected (0.011 sec)

MariaDB [pes1ug20ec336]> desc service_manager;
ERROR 1146 (42S02): Table 'pes1ug20ec336.service_manager' doesn't exist
MariaDB [pes1ug20ec336]> show tables;
+-----+
| Tables_in_pes1ug20ec336 |
+-----+
| accessories              |
| bike                     |
| cust_phone               |
| customer                 |
| dealer                   |
| invoice                  |
| salesperson              |
| service_ticket           |
+-----+
8 rows in set (0.001 sec)

MariaDB [pes1ug20ec336]>
```