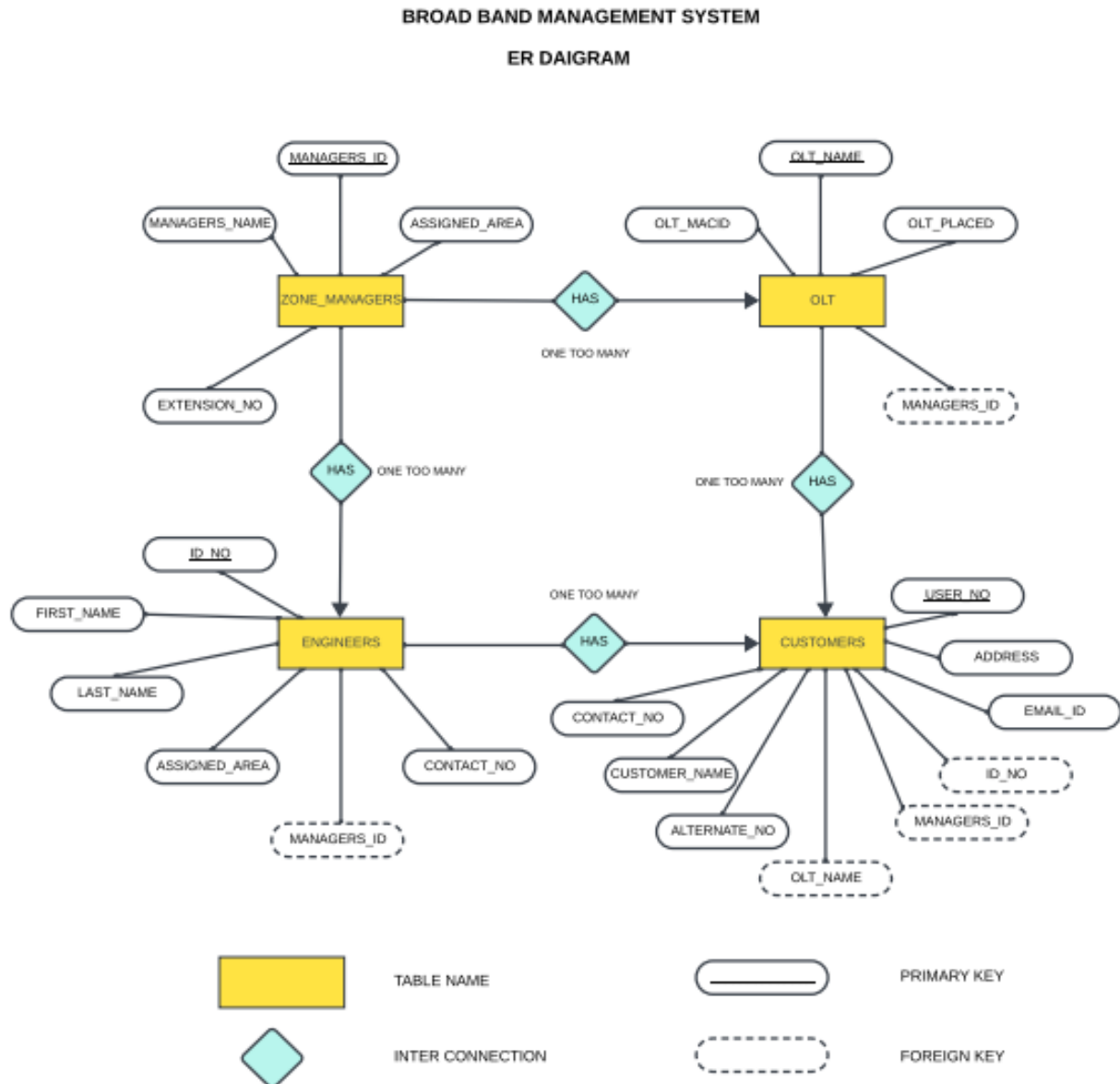


*** SQL PROJECT ***

Board band Management System (Wi-Fi-Company)



Utilized the PhpMyAdmin platform to execute a comprehensive database project, involving the creation and management of four essential tables

Zone Managers Table: Established a structured table to manage zone managers' data efficiently, facilitating organized data handling and retrieval.

OLT Table: Developed a dedicated table for Optical Line Terminal (OLT) information, ensuring accurate storage and management of critical data related to network infrastructure.

Engineers Table: Implemented a table structure to store essential details of engineers, enabling streamlined

tracking of personnel information and assignments.

Customers Table: Established a robust table structure to manage customer data effectively, enabling seamless customer relationship management within the database system.

Performed data manipulation tasks including:

Data Insertion: Populated the tables with multiple records, ensuring comprehensive data representation.

Data Interconnection: Established relationships between tables using foreign keys, facilitating data integrity and coherence across the database.

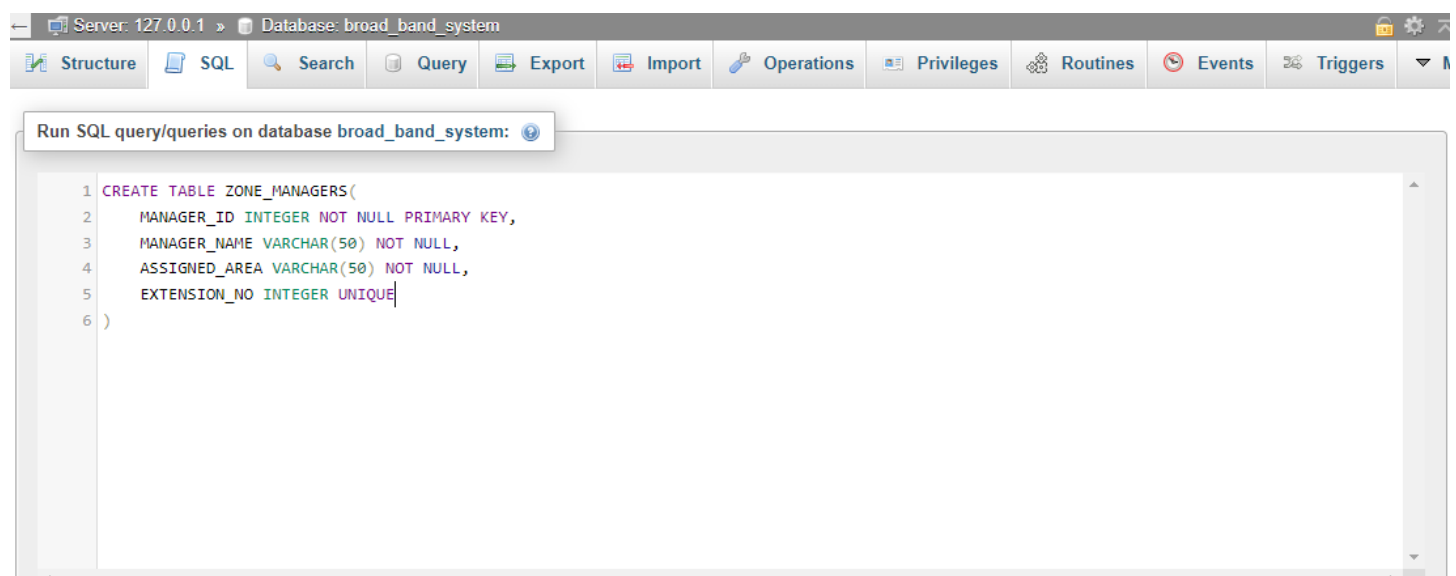
Data Retrieval: Employed various SQL query techniques to retrieve data based on different conditions, such as fetching single columns, employing aliases, executing subqueries, and applying advanced querying methods like inner joins.

Data Modification: Implemented SQL commands for data modification tasks, including updates and deletions, ensuring data accuracy and relevance.

Data Management: Employed SQL commands such as order by, truncate, and drop to manage data efficiently within the database environment, ensuring optimal performance and integrity.

Created Tables:

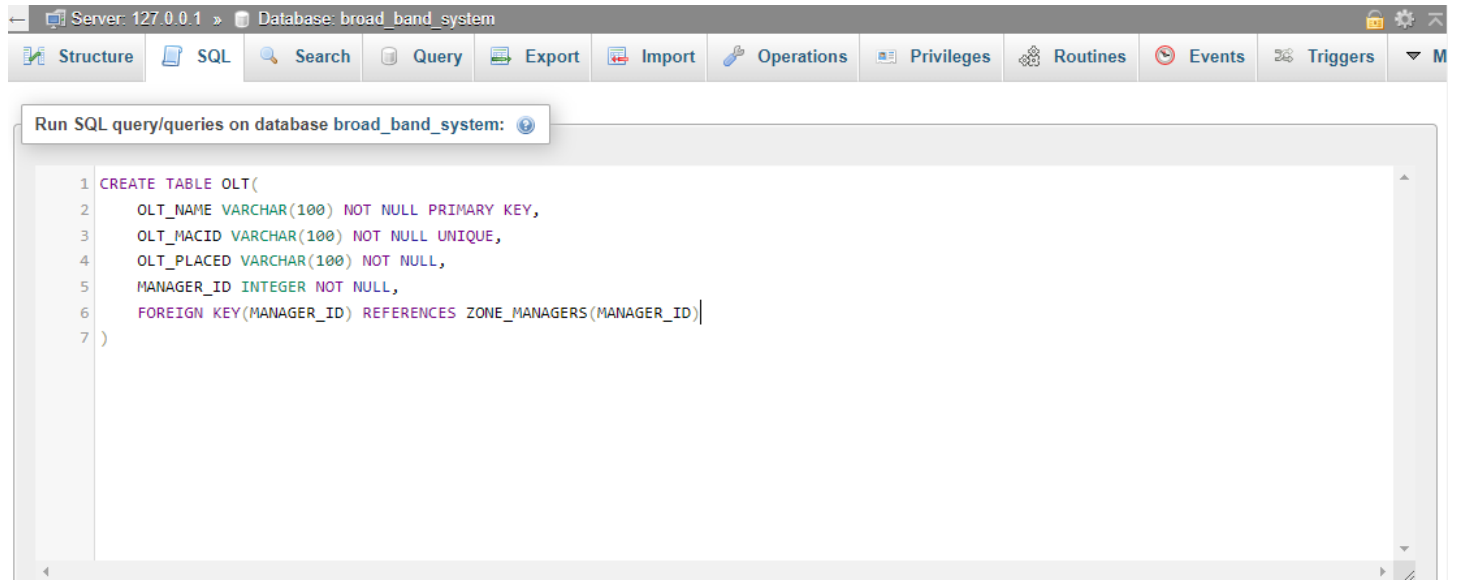
ZONE_MANAGERS : Create table ZONE_MANAGERS(
MANAGER_ID INTEGER NOT NULL primary key,
MANAGER_NAME varchar(50) NOT NULL,
ASSIGNED_AREA varchar(50) NOT NULL,
EXTENTION_NO number unique
);



OLT : create table OLT(OLT_NAME varchar(100) NOT NULL primary key,
OLT_MACID varchar(100) NOT NULL unique,
OLT_PLACED varchar(100) NOT NULL,
MANAGER_ID INTEGER NOT NULL,

Foreign key(MANAGER_ID) references ZONE MANAGERS(MANAGER_ID)

);



The screenshot shows a SQL IDE window titled "Server: 127.0.0.1" and "Database: broad_band_system". The "SQL" tab is active. A toolbar at the top includes buttons for Structure, SQL, Search, Query, Export, Import, Operations, Privileges, Routines, Events, and Triggers. Below the toolbar, a text area contains the following SQL code:

```
1 CREATE TABLE OLT(  
2     OLT_NAME VARCHAR(100) NOT NULL PRIMARY KEY,  
3     OLT_MACID VARCHAR(100) NOT NULL UNIQUE,  
4     OLT_PLACED VARCHAR(100) NOT NULL,  
5     MANAGER_ID INTEGER NOT NULL,  
6     FOREIGN KEY(MANAGER_ID) REFERENCES ZONE MANAGERS(MANAGER_ID)  
7 )
```

ENGINEERS: Create table ENGINEERS(ID_NO varchar(50) primary key,

FIRST_NAME varchar(50) NOT NULL,

LAST_NAME varchar(50) NOT NULL,

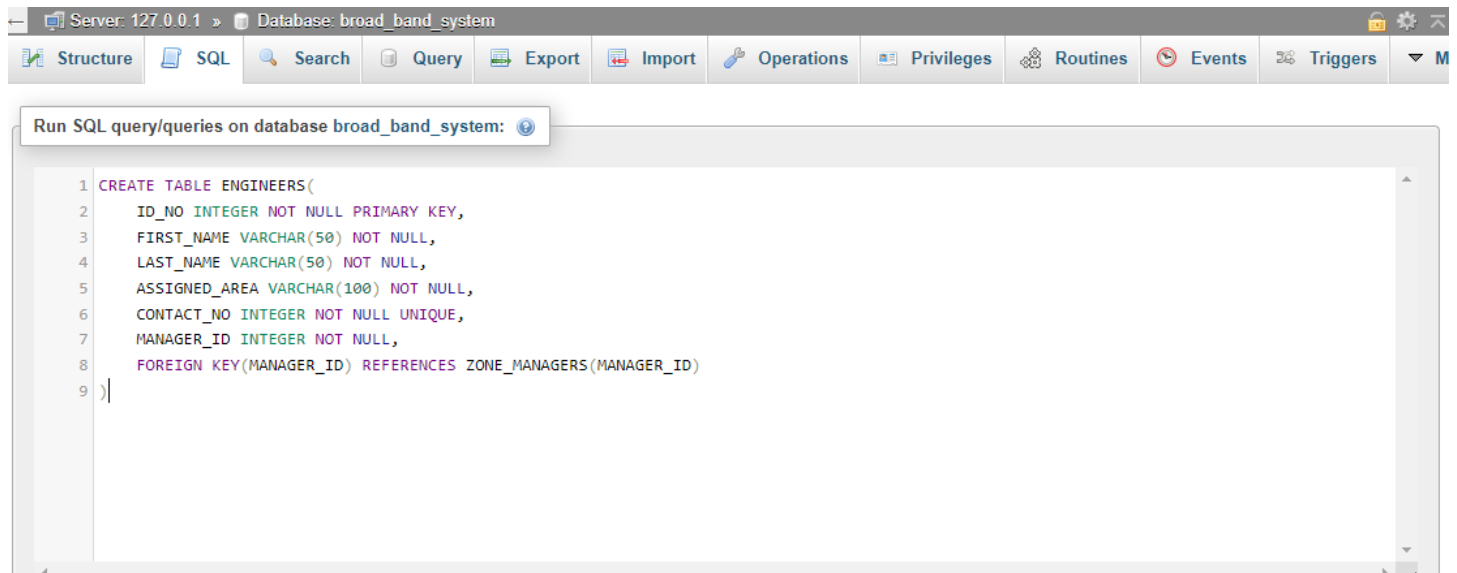
ASSIGNED_AREA varchar(100) NOT NULL,

CONTACT_NO number NOT NULL unique,

MANAGER_ID INTEGER NOT NULL,

Foreign key(MANAGER_ID) references ZONE MANAGERS(MANAGER_ID)

);



The screenshot shows a SQL IDE window titled "Server: 127.0.0.1" and "Database: broad_band_system". The "SQL" tab is active. A toolbar at the top includes buttons for Structure, SQL, Search, Query, Export, Import, Operations, Privileges, Routines, Events, and Triggers. Below the toolbar, a text area contains the following SQL code:

```
1 CREATE TABLE ENGINEERS(  
2     ID_NO INTEGER NOT NULL PRIMARY KEY,  
3     FIRST_NAME VARCHAR(50) NOT NULL,  
4     LAST_NAME VARCHAR(50) NOT NULL,  
5     ASSIGNED_AREA VARCHAR(100) NOT NULL,  
6     CONTACT_NO INTEGER NOT NULL UNIQUE,  
7     MANAGER_ID INTEGER NOT NULL,  
8     FOREIGN KEY(MANAGER_ID) REFERENCES ZONE MANAGERS(MANAGER_ID)  
9 )
```

CUSTOMERS: Create table CUSTOMERS(USER_ID varchar(100) NOT NULL primary key,

CUSTOMER_NAME varchar(100) NOT NULL,

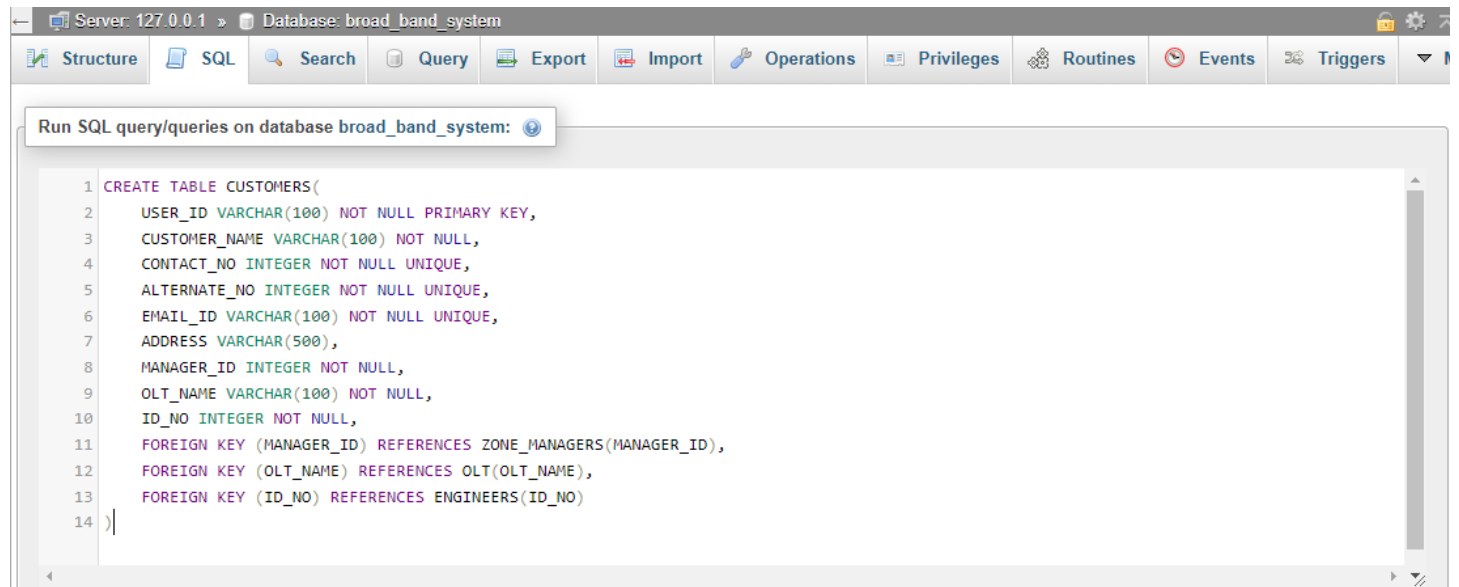
CONTACT_NO INTEGER NOT NULL,

ALTERNATE_NO INTEGER unique,

EMAIL_ID varchar(100) NOT NULL unique,

ADDRESS varchar(500),

```
MANAGER_ID INTEGER NOT NULL,  
OLT_NAME varchar(100) NOT NULL,  
ID_NO INTEGER NOT NULL,  
Foreign key(MANAGER_ID) references ZONE MANAGERS(MANAGER_ID),  
Foreign key(OLT_NAME) references OLT(OLT_NAME),  
Foreign key(ID_NO) references ENGINEERS(ID_NO)  
);
```



The screenshot shows a database management tool interface with a menu bar (Structure, SQL, Search, Query, Export, Import, Operations, Privileges, Routines, Events, Triggers) and a toolbar. The main window displays a SQL query to create a table named CUSTOMERS. The query is as follows:

```
1 CREATE TABLE CUSTOMERS(  
2     USER_ID VARCHAR(100) NOT NULL PRIMARY KEY,  
3     CUSTOMER_NAME VARCHAR(100) NOT NULL,  
4     CONTACT_NO INTEGER NOT NULL UNIQUE,  
5     ALTERNATE_NO INTEGER NOT NULL UNIQUE,  
6     EMAIL_ID VARCHAR(100) NOT NULL UNIQUE,  
7     ADDRESS VARCHAR(500),  
8     MANAGER_ID INTEGER NOT NULL,  
9     OLT_NAME VARCHAR(100) NOT NULL,  
10    ID_NO INTEGER NOT NULL,  
11    FOREIGN KEY (MANAGER_ID) REFERENCES ZONE MANAGERS(MANAGER_ID),  
12    FOREIGN KEY (OLT_NAME) REFERENCES OLT(OLT_NAME),  
13    FOREIGN KEY (ID_NO) REFERENCES ENGINEERS(ID_NO)  
14 );
```

Inserting Values:

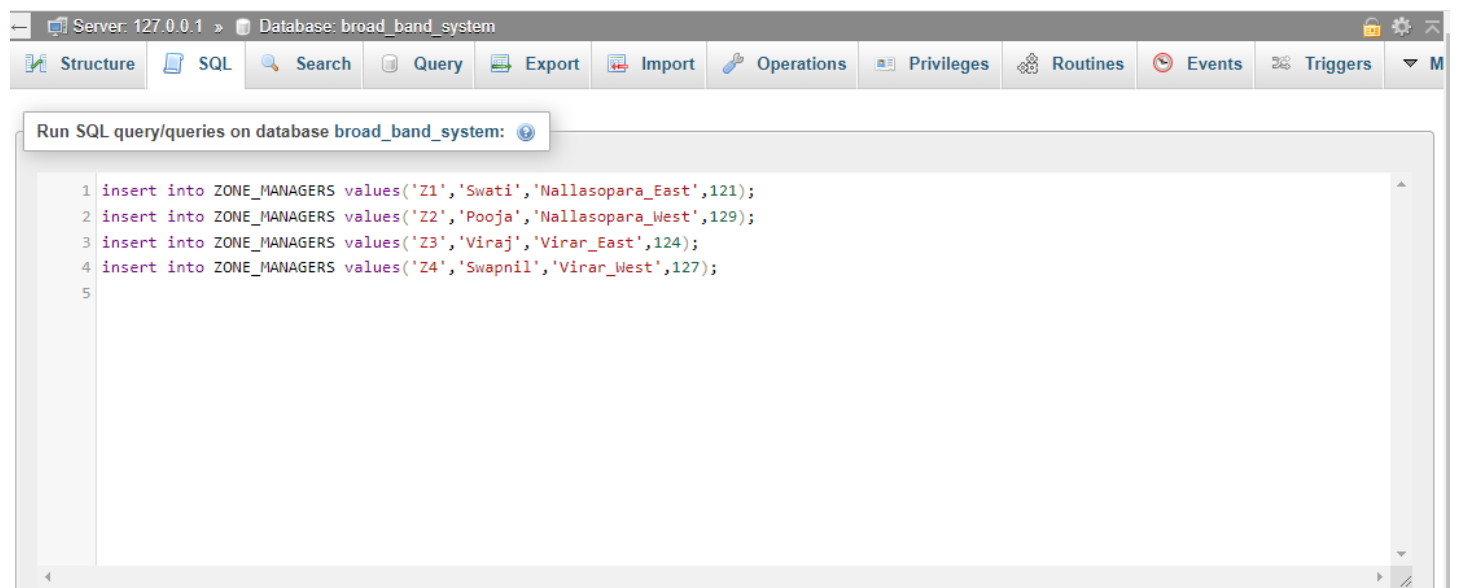
ZONE MANAGERS

Table insert into ZONE MANAGERS values('Z1','Swati','Nallasopara_East',121);

insert into ZONE MANAGERS values('Z2','Pooja','Nallasopara_West',129);

insert into ZONE MANAGERS values('Z3','Viraj','Virar_East',124);

insert into ZONE MANAGERS values('Z4','Swapnil','Virar_West',127);



The screenshot shows the same database management tool interface. The main window displays a SQL query to insert four rows of data into the ZONE MANAGERS table. The query is as follows:

```
1 insert into ZONE MANAGERS values('Z1','Swati','Nallasopara_East',121);  
2 insert into ZONE MANAGERS values('Z2','Pooja','Nallasopara_West',129);  
3 insert into ZONE MANAGERS values('Z3','Viraj','Virar_East',124);  
4 insert into ZONE MANAGERS values('Z4','Swapnil','Virar_West',127);  
5
```

Server: 127.0.0.1 » Database: broad_band_system

Structure SQL Search Query Export Import Operations Privileges Routines Events Triggers M

Show query box

✓ 1 row inserted. (Query took 0.0025 seconds.)

```
insert into ZONE_MANAGERS values('Z1','Swati','Nallasopara_East',121);
```

[Edit inline] [Edit] [Create PHP code]

✓ 1 row inserted. (Query took 0.0018 seconds.)

```
insert into ZONE_MANAGERS values('Z2','Pooja','Nallasopara_West',129);
```

[Edit inline] [Edit] [Create PHP code]

✓ 1 row inserted. (Query took 0.0015 seconds.)

```
insert into ZONE_MANAGERS values('Z3','Viraj','Virar_East',124);
```

[Edit inline] [Edit] [Create PHP code]

✓ 1 row inserted. (Query took 0.0016 seconds.)

```
insert into ZONE_MANAGERS values('Z4','Swapnil','Virar_West',127);
```

[Edit inline] [Edit] [Create PHP code]

OLT

Table insert into OLT values ('MNE1','OLT-DB1','NSP(E)','Z1');

insert into OLT values('MVE1','OLT-DB19','VR(E)','Z3');

insert into OLT values('MNV1','OLT-DB22','NSP(W)','Z2');

insert into OLT values('MVE2','OLT-DB31','VR(E)','Z3');

insert into OLT values('MNE2','OLT-DB61','NSP(E)','Z1');

insert into OLT values('MVW2','OLT-DB24','VR(W)','Z4');

insert into OLT values('MVW1','OLT-DB53','VR(W)','Z4');

insert into OLT values('MNV2','OLT-DB23','NSP(W)','Z2');

Server: 127.0.0.1 » Database: broad_band_system

Structure SQL Search Query Export Import Operations Privileges Routines Events Triggers

Run SQL query/queries on database broad_band_system:

```
1 insert into OLT values('MNE1','OLT-DB1','NSP(E)','Z1');
2 insert into OLT values('MVE1','OLT-DB19','VR(E)','Z3');
3 insert into OLT values('MNV1','OLT-DB22','NSP(W)','Z2');
4 insert into OLT values('MVE2','OLT-DB31','VR(E)','Z3');
5 insert into OLT values('MNE2','OLT-DB61','NSP(E)','Z1');
6 insert into OLT values('MVW2','OLT-DB24','VR(W)','Z4');
7 insert into OLT values('MVW1','OLT-DB53','VR(W)','Z4');
8 insert into OLT values('MNV2','OLT-DB23','NSP(W)','Z2');
```

ENGINEERS

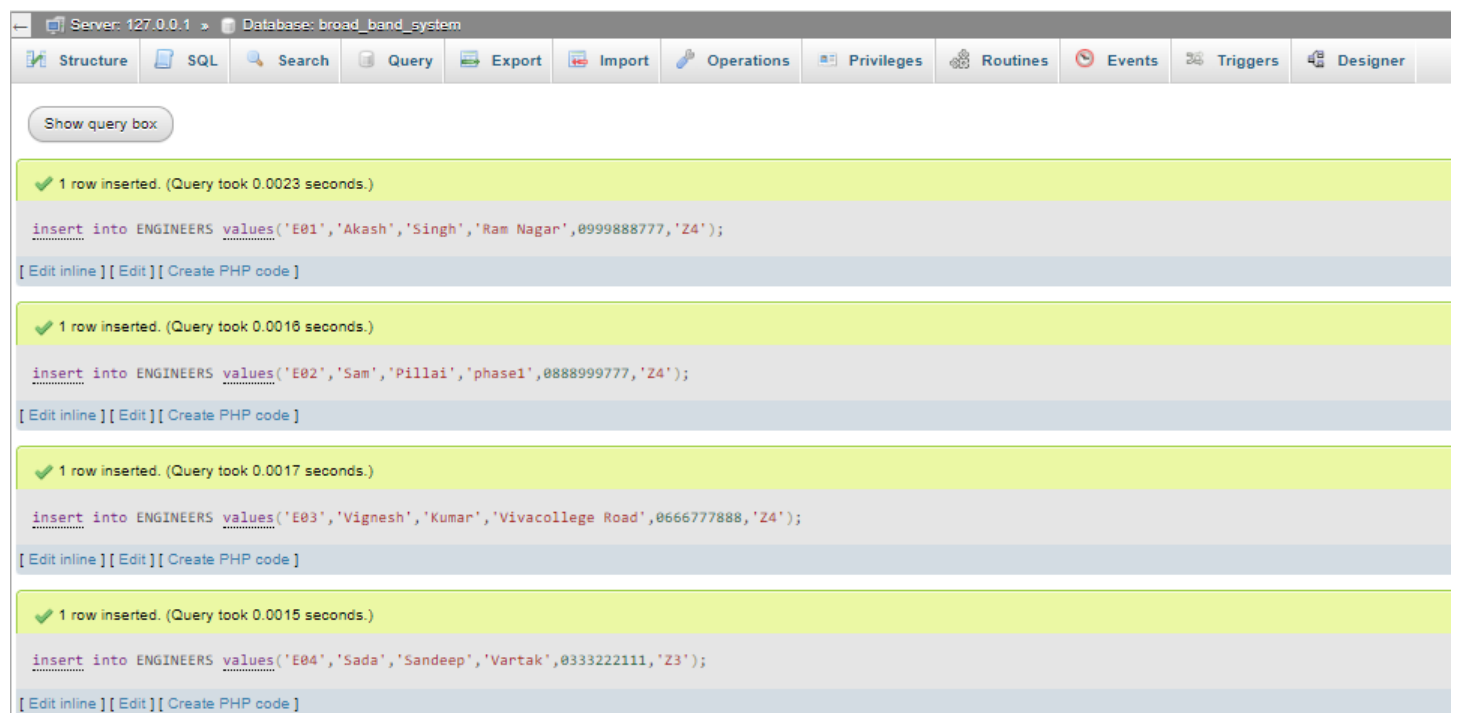
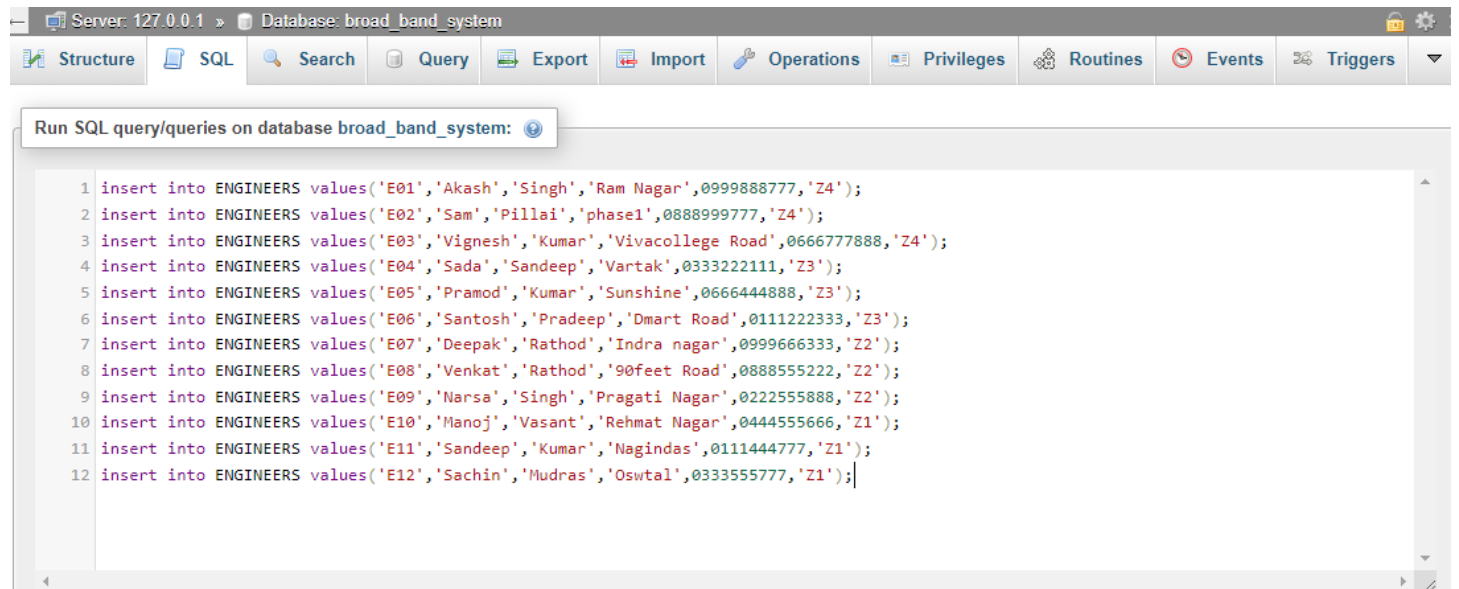
insert into ENGINEERS values('E01','Akash','Singh','Ram Nagar','0999888777','Z4');

insert into ENGINEERS values('E02','Sam','Pillai','phase1','0888999777','Z4');

```

insert into ENGINEERS values('E03','Vignesh','Kumar','Vivacollege Road',0666777888,'Z4');
insert into ENGINEERS values('E04','Sada','Sandeep','Vartak',0333222111,'Z3');
insert into ENGINEERS values('E05','Pramod','Kumar','Sunshine', 0666444888,'Z3');
insert into ENGINEERS values('E06','Santosh','Pradeep','Dmart Road',0111222333,'Z3');
insert into ENGINEERS values('E07','Deepak','Rathod','Indra nagar',0999666333,'Z2');
insert into ENGINEERS values('E08','Venkat','Rathod','90feet Road',0888555222,'Z2');
insert into ENGINEERS values('E09','Narsa','Singh','Pragati Nagar',0222555888,'Z2');
insert into ENGINEERS values('E10','Manoj','Vasant','Rehmat Nagar',0444555666,'Z1');
insert into ENGINEERS values('E11','Sandeep','Kumar','Nagindas',0111444777,'Z1');
insert into ENGINEERS values('E12','Sachin','Mudras','Oswtal',0333555777,'Z1');

```



CUSTOMERS

```

insert into CUSTOMERS values('C001','Ajithkumar',9146565788,9145567233,'aji####@gmail.com','Room no A/402,###Rehmatnagar','Z1','MNE1','E10');
insert into CUSTOMERS values('C002','Sam',8653264589,9996663332,'sam##@gmail.com','Room no ,809####,Pragatinagar','Z2','MNW1','E09');

```

```

insert into CUSTOMERS values('C003','Yash',9996548529,9912113335,null,'room no 203/b###indra nagar','Z2','MNW2','E07');

insert into CUSTOMERS values('C004','Pauldurai',8882223335,9912223335,'pauld###@gmail.com','rmnoA/410##,viva college rd','Z4','MVW2','E03');

insert into CUSTOMERS values('C005','Santhosh',9141562238,9145560003,'san1####@gmail.com','Room no 302,###OSTWAL','Z1','MNE2','E12');

insert into CUSTOMERS values('C006','Mayur',8552652396,null,'may###@gmail.com','roomno 303,##Vartak','Z3','MVE2','E04');

insert into CUSTOMERS values('C007','Vekatesh',6665553231,7896585645,null,'Roomno222,##Dmart Road','Z3','MVE2','E06');

insert into CUSTOMERS values('C008','Manikandan',9996368526,4458796558,'mani112##@gmail.com','roomno211/ D,###vivacollege rd','Z4','MVW2','E03');

insert into CUSTOMERS values('C009','NirmalRathod',8885654265,null,null,'404/C,##Pragati Nagar','Z2','MNW1','E09');

insert into CUSTOMERS values('C010','Samirkhan',8787989894,8788558745,'samir@gmail.com','111,##Sunshine','Z3','MVE1','E05');

insert into CUSTOMERS values('C011','Aayush',8653114589,8896663332,'aay112##@gmail.com','Room no ,809####,Pragatinagar','Z2','MNW1','E09');

insert into CUSTOMERS values('C012','Raghu',8246565788,8896664132,null,'Room no b/402,###ostwal','Z1','MNE2','E12');

insert into CUSTOMERS values('C013','Ravi',9996355626,8966663332,null,'Rno 123##Vartak','Z3','MVE2','E04');

insert into CUSTOMERS values('C014','ShenaPawar',9989768526,8882213335,'ShenaP#@gmail.com','Roomno 414##Sunshine','Z3','MVE1','E05');

insert into CUSTOMERS values('C015','Arvind',8223264589,9996123332,'arv###@gmail.com','Room no ,007####,Pragatinagar','Z2','MNW1','E09');

insert into CUSTOMER values('C016','shrutika',9665487896,9228855465,'shr@gmail.com','Room002##phase1','Z4','MVW1','E02');

insert into CUSTOMERS values('C017','Charu',7722668956,8978798978,'charu@gmail.com','##near Ram Nagar','Z4','MVW2','E01');

insert into CUSTOMERS values('C018','Vinoth',9116565788,null,'vi####@gmail.com','002###Rehmatnagar','Z1','MNE 1','E10');

insert into CUSTOMERS values('C019','Bendre Nisha',8884848335,8184848335,'bendre@gmail.com','Roomno303##Ram Nagar','Z4','MVW2','E01');

insert into CUSTOMERS values('C020','Selvi',9145116573,8145116777,null,'Roomno 221##Ram Nagar','Z4','MVW2','E01');

insert into CUSTOMERS values('C021','Kala',8529637415,3692581478,'Kala@gmail.com','##near bakery Sunshine rd','Z3','MVE1','E05');

insert into CUSTOMERS values('C022','Hitesh',9146565000,9123567233,'hit23####@gmail.com','Room no d/301,###Rehmatnagar','Z1','MNE1','E10');

insert into CUSTOMERS values('C023','Kalidasan',8145116578,null,'kali####@gmail.com','Room no A/002,###nagindas','Z1','MNE2','E11');

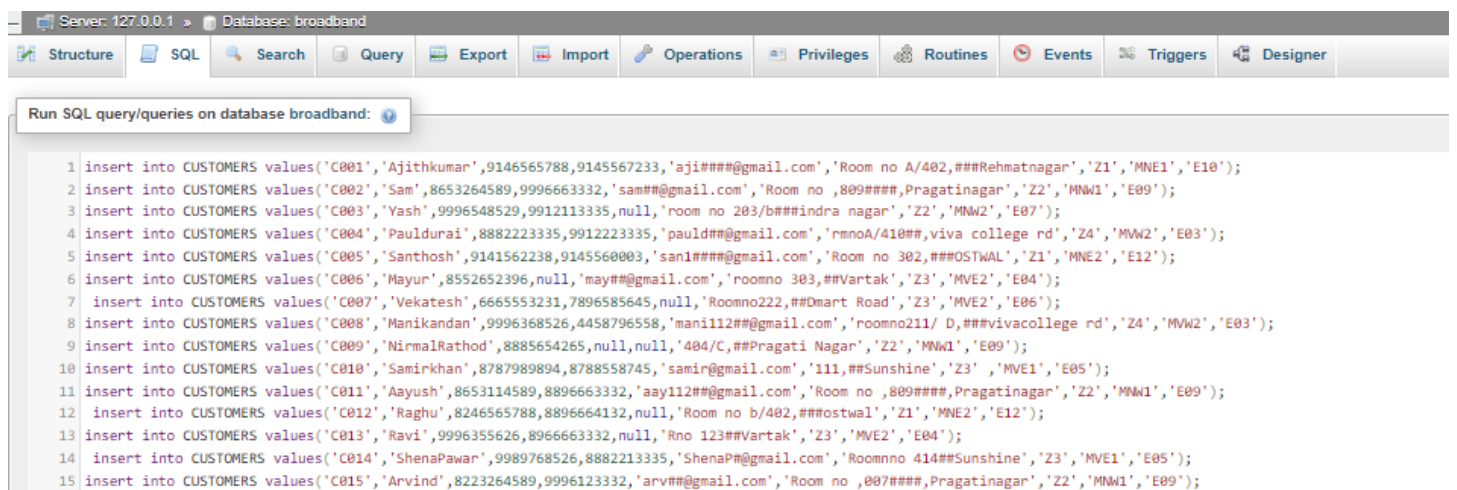
insert into CUSTOMERS values('C024','Ruhsi',9145656799,null,null,'roomno 101##Vartak mainrd','Z3','MVE2','E04');

insert into CUSTOMERS values('C025','Rohit Mudras',9998882229,9998884444,'rohit@gmail.com','##Vartak','Z3','MVE2','E04');

insert into CUSTOMERS values('C026','Saurandeep',8124848335,9126368526,'saura@gmail.com','Room no 404##Ram Nagar','Z4','MVW2','E01');

insert into CUSTOMERS values('C027','deva Krishna',8224848335,null,'deva@gmail.com','Room no near vedant school,phase1','Z4','MVW1','E02')

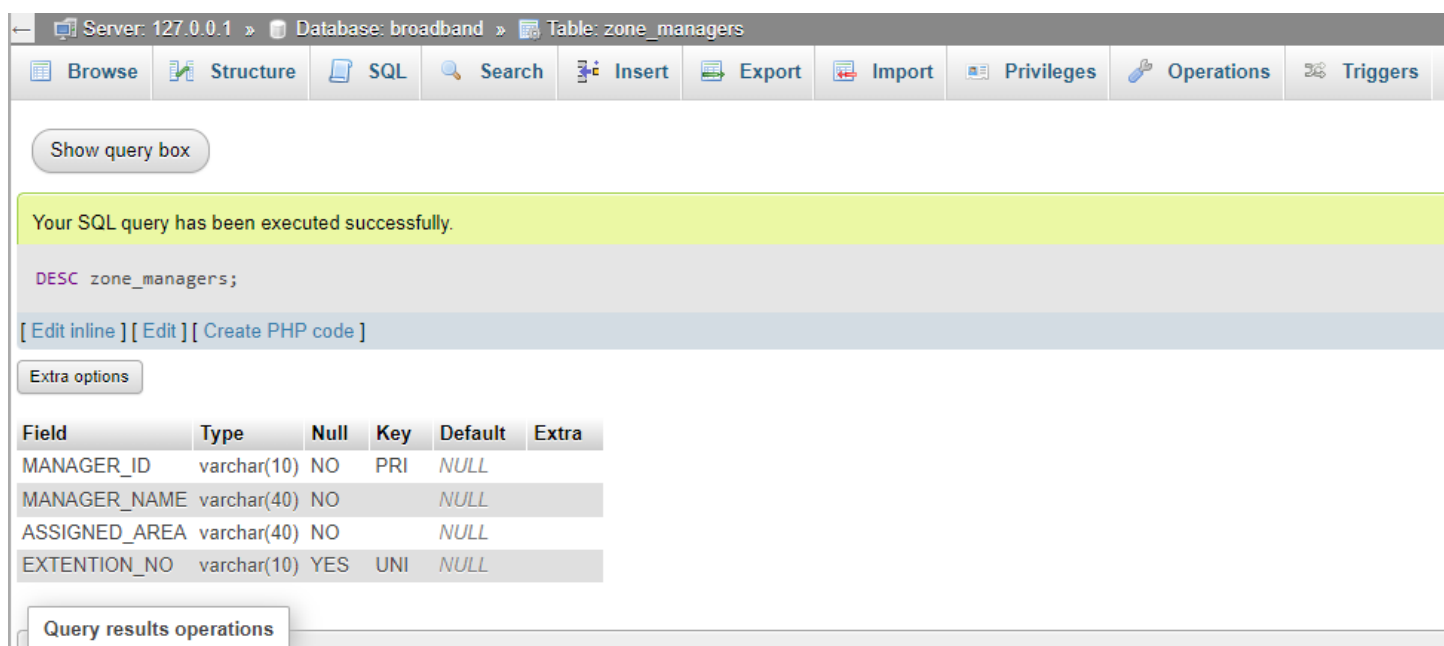
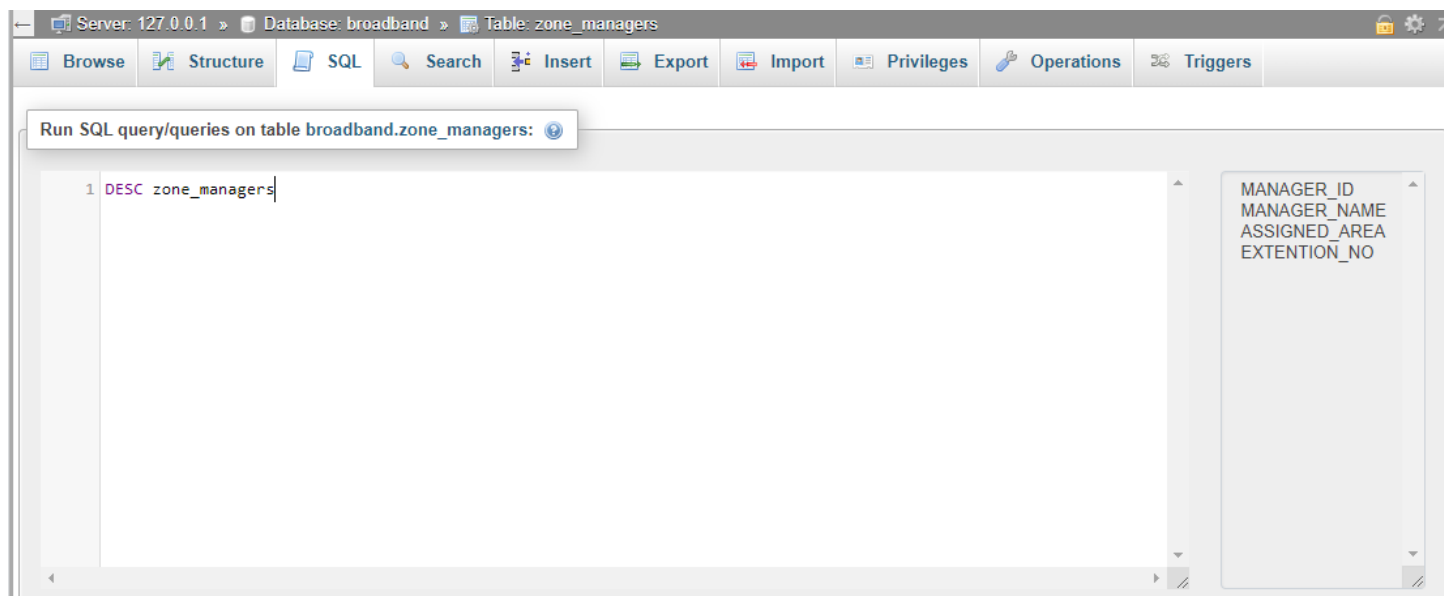
```



Performed Following Conditions:-

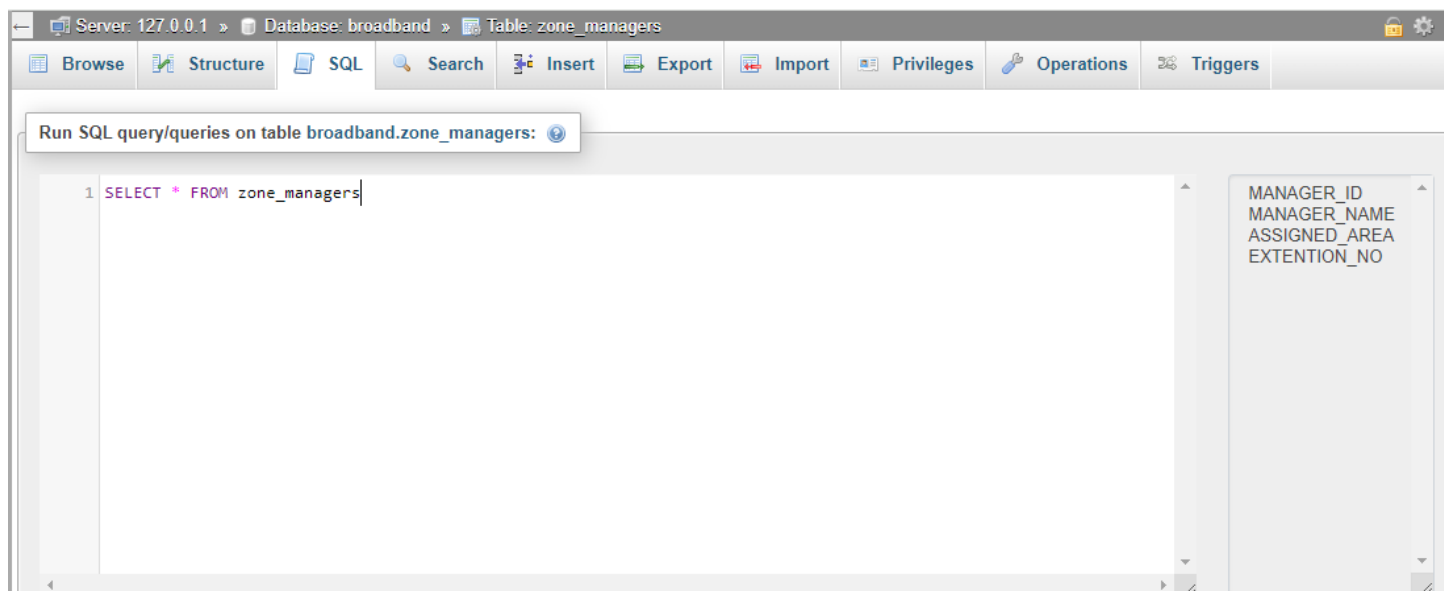
Q1 .Describe ZONE MANAGERS table Structure?

→ Desc ZONE MANAGERS;



Q2. Fetch all Zone managers Table?

→ Select * from ZONE_MANAGERS;



Server: 127.0.0.1 » Database: broadband » Table: zone_managers

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Show query box

✓ Showing rows 0 - 3 (4 total, Query took 0.0004 seconds.)

`SELECT * FROM zone_managers;`

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

| | MANAGER_ID | MANAGER_NAME | ASSIGNED_AREA | EXTENTION_NO |
|---|------------|--------------|------------------|--------------|
| <input type="checkbox"/> Edit Copy Delete | Z1 | Swati | Nallasopara_East | 121 |
| <input type="checkbox"/> Edit Copy Delete | Z2 | Pooja | Nallasopara_West | 129 |
| <input type="checkbox"/> Edit Copy Delete | Z3 | Viraj | Virar_East | 124 |
| <input type="checkbox"/> Edit Copy Delete | Z4 | Swapnil | Virar_West | 127 |

↑ ☐ Check all With selected: Edit Copy Delete Export

Q3. Fetch Zone managers names of assigned zone of Nallasopara East?

→ Select MANAGER_NAME from ZONE MANAGERS where ASSIGNED_AREA='Nallasopara_East';

Server: 127.0.0.1 » Database: broadband » Table: zone_managers

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Run SQL query/queries on table broadband.zone_managers:

```

1 /*Fetch Zone managers names of assigned zone of Nallasopara East?*/
2
3 SELECT MANAGER_NAME FROM zone_managers WHERE ASSIGNED_AREA = 'Nallasopara_East'

```

MANAGER_ID
MANAGER_NAME
ASSIGNED_AREA
EXTENTION_NO

Server: 127.0.0.1 » Database: broadband » Table: zone_managers

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Show query box

✓ Showing rows 0 - 0 (1 total, Query took 0.0005 seconds.)

*/*Fetch Zone managers names of assigned zone of Nallasopara East?*/* `SELECT MANAGER_NAME FROM zone_managers WHERE ASSIGNED_AREA = 'Nallasopara_East';`

[Edit inline] [Edit] [Create PHP code]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

→ T ← MANAGER_NAME

☐ Edit Copy Delete Swati

Q4. Rename column OLT_NAME temporary?

→ Select OLT_NAME as OLT_No_id from OLT;

Server: 127.0.0.1 » Database: broadband » Table: olt

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Run SQL query/queries on table broadband.olt: ⓘ

```

1 /*Rename column OLT_NAME temporary?*/
2 SELECT OLT_NAME AS OLT_ID_NO FROM olt;

```

OLT_NAME
OLT_MACID
OLT_PLACED
MANAGER_ID

Server: 127.0.0.1 » Database: broadband » Table: olt

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Show query box

✓ Showing rows 0 - 7 (8 total, Query took 0.0006 seconds.)

```
/*Rename column OLT_NAME temporary?*/ SELECT OLT_NAME AS OLT_ID_NO FROM olt;
```

[Edit inline] [Edit] [Create PHP code]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

| | OLT_ID_NO |
|---|-----------|
| <input type="checkbox"/> Edit Copy Delete | MNE1 |
| <input type="checkbox"/> Edit Copy Delete | MNE2 |
| <input type="checkbox"/> Edit Copy Delete | MNW1 |
| <input type="checkbox"/> Edit Copy Delete | MNW2 |
| <input type="checkbox"/> Edit Copy Delete | MVE1 |
| <input type="checkbox"/> Edit Copy Delete | MVE2 |
| <input type="checkbox"/> Edit Copy Delete | MVW1 |
| <input type="checkbox"/> Edit Copy Delete | MVW2 |

Q5.Update OLT_MACID ("OLTNew-DB22") "MNW1" of OLT_NAME ?

→update OLT set OLT_MACID='OLTNew-DB22' where OLT_NAME='MNW1';

Server: 127.0.0.1 » Database: broadband » Table: olt

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Run SQL query/queries on table broadband.olt:

```
1 UPDATE olt SET OLT_MACID='OLTNEW22'WHERE OLT_NAME='MNW1'
```

OLT_NAME
OLT_MACID
OLT_PLACED
MANAGER_ID

Server: 127.0.0.1 » Database: broadband » Table: olt

[Browse](#)
[Structure](#)
[SQL](#)
[Search](#)
[Insert](#)
[Export](#)
[Import](#)
[Privileges](#)
[Operations](#)
[Triggers](#)

✓ Showing rows 0 - 7 (8 total, Query took 0.0004 seconds.)

`SELECT * FROM `olt``

☐ Profiling
 [\[Edit inline \]](#)
[\[Edit \]](#)
[\[Explain SQL \]](#)
[\[Create PHP code \]](#)
[\[Refresh \]](#)

☐ Show all
 Number of rows:
Filter rows:
Sort by key:

Extra options

| | | | OLT_NAME | OLT_MACID | OLT_PLACED | MANAGER_ID | |
|--------------------------|--|--|----------|-----------|------------|------------|----|
| <input type="checkbox"/> | | | | MNE1 | OLT-DB1 | NSP(E) | Z1 |
| <input type="checkbox"/> | | | | MNE2 | OLT-DB61 | NSP(E) | Z1 |
| <input type="checkbox"/> | | | | MNW1 | OLTNEW22 | NSP(W) | Z2 |
| <input type="checkbox"/> | | | | MNW2 | OLT-DB23 | NSP(W) | Z2 |
| <input type="checkbox"/> | | | | MVE1 | OLT-DB19 | VR(E) | Z3 |
| <input type="checkbox"/> | | | | MVE2 | OLT-DB31 | VR(E) | Z3 |
| <input type="checkbox"/> | | | | MVW1 | OLT-DB53 | VR(W) | Z4 |
| <input type="checkbox"/> | | | | MVW2 | OLT-DB24 | VR(W) | Z4 |

Q6. Fetch unique ID_NO and sort in ascending order?

→select distinct(ID_NO),OLT_NAME from CUSTOMERS where ID_NO in (select ID_NO from ENGINEERS)order by ID_NO;

Server: 127.0.0.1 » Database: broadband » Table: customers

[Browse](#)
[Structure](#)
[SQL](#)
[Search](#)
[Insert](#)
[Export](#)
[Import](#)
[Privileges](#)
[Operations](#)
[Triggers](#)

Run SQL query/queries on table broadband.customers:

```

1 /*Fetch unique ID_NO and sort in ascending order?*/
2
3 SELECT DISTINCT(ID_NO), OLT_NAME FROM customers ORDER BY ID_NO
  
```

USER_ID
 CUSTOMER_NAME
 CONTACT_NO
 ALTERNATE_NO
 EMAIL_ID
 ADDRESS
 MANAGER_ID
 OLT_NAME
 ID_NO

Server: 127.0.0.1 » Database: broadband » Table: customers

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

✓ Showing rows 0 - 10 (11 total, Query took 0.0007 seconds.) [ID_NO: E01... - E12...]

/*Fetch unique ID_NO and sort in ascending order?*/ `SELECT DISTINCT(ID_NO), OLT_NAME FROM customers ORDER BY ID_NO;`

[Edit inline] [Edit] [Create PHP code]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

| | ID_NO | OLT_NAME |
|---|-------|----------|
| <input type="checkbox"/> Edit Copy Delete | E01 | MVW2 |
| <input type="checkbox"/> Edit Copy Delete | E02 | MVW1 |
| <input type="checkbox"/> Edit Copy Delete | E03 | MVW2 |
| <input type="checkbox"/> Edit Copy Delete | E04 | MVE2 |
| <input type="checkbox"/> Edit Copy Delete | E05 | MVE1 |
| <input type="checkbox"/> Edit Copy Delete | E06 | MVE2 |
| <input type="checkbox"/> Edit Copy Delete | E07 | MNW2 |
| <input type="checkbox"/> Edit Copy Delete | E09 | MNW1 |
| <input type="checkbox"/> Edit Copy Delete | E10 | MNE1 |
| <input type="checkbox"/> Edit Copy Delete | E11 | MNE2 |
| <input type="checkbox"/> Edit Copy Delete | E12 | MNE2 |

Q7. Fetch only 3 rows ENGINEERS details and sort column FIRST_NAME descending order from ENGINEERS table?

→Select * from ENGINEERS order by FIRST_NAME DESC LIMIT 3

Server: 127.0.0.1 » Database: broadband » Table: engineers

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Run SQL query/queries on table broadband.engineers:

```

1 /*Fetch only 3 rows ENGINEERS details and sort column FIRST_NAME descending
2 order from ENGINEERS table?*/
3 SELECT * FROM engineers ORDER BY FIRST_NAME DESC LIMIT 3

```

ID_NO
FIRST_NAME
LAST_NAME
ASSIGNED_AREA
CONTACT_NO
MANAGER_ID

Server: 127.0.0.1 » Database: broadband » Table: engineers

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Show query box

Showing rows 0 - 2 (3 total, Query took 0.0006 seconds.) [FIRST_NAME: VIGNESH... - SANTOSH...]

```
/*Fetch only 3 rows ENGINEERS details and sort column FIRST_NAME descending order from ENGINEERS table?*/
SELECT * FROM engineers ORDER BY FIRST_NAME DESC LIMIT 3;
```

[Edit inline] [Edit] [Create PHP code]

Extra options

| | ID_NO | FIRST_NAME | LAST_NAME | ASSIGNED_AREA | CONTACT_NO | MANAGER_ID |
|---|-------|------------|-----------|------------------|------------|------------|
| <input type="checkbox"/> Edit Copy Delete | E03 | Vignesh | Kumar | Vivacollege Road | 666777888 | Z4 |
| <input type="checkbox"/> Edit Copy Delete | E08 | Venkat | Rathod | 90feet Road | 888555222 | Z2 |
| <input type="checkbox"/> Edit Copy Delete | E06 | Santosh | Pradeep | Dmart Road | 111222333 | Z3 |

Check all With selected: Edit Copy Delete Export

Q8. Fetch Customers details of virar-east zone?

→select * from CUSTOMERS where MANAGER_ID in(select MANAGER_ID from ZONE MANAGERS where ASSIGNED_AREA='Virar_East')

Server: 127.0.0.1 » Database: broadband » Table: CUSTOMERS

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Run SQL query/queries on table broadband.CUSTOMERS:

```
1 /*Fetch Customers details of virar-east zone?*/
2
3 select * from CUSTOMERS where MANAGER_ID in(select MANAGER_ID from
4 ZONE MANAGERS where ASSIGNED_AREA='Virar_East')
```

USER_ID
CUSTOMER_NAME
CONTACT_NO
ALTERNATE_NO
EMAIL_ID
ADDRESS
MANAGER_ID
OLT_NAME
ID_NO

Server: 127.0.0.1 > Database: broadband > Table: CUSTOMERS

Showing rows 0 - 7 (8 total, Query took 0.0008 seconds.)

```
/*Fetch Customers details of virar-east zone?*/ select * from CUSTOMERS where MANAGER_ID in(select MANAGER_ID from ZONE_MANAGERS where ASSIGNED_AREA='Virar_East');
```

Number of rows: 25 Filter rows: Search this table Sort by key: None

| | USER_ID | CUSTOMER_NAME | CONTACT_NO | ALTERNATE_NO | EMAIL_ID | ADDRESS | MANAGER_ID | OLT_NAME | ID_NO |
|---|---------|---------------|------------|--------------|-------------------|---------------------------|------------|----------|-------|
| <input type="checkbox"/> Edit Copy Delete | C006 | Mayur | 8552652396 | NULL | may##@gmail.com | roomno 303,##Vartak | Z3 | MVE2 | E04 |
| <input type="checkbox"/> Edit Copy Delete | C007 | Vekatesh | 6665553231 | 7896585645 | NULL | Roomno222,##Dmart Road | Z3 | MVE2 | E06 |
| <input type="checkbox"/> Edit Copy Delete | C010 | Samirkhan | 8787989894 | 8788558745 | samir@gmail.com | 111,##Sunshine | Z3 | MVE1 | E05 |
| <input type="checkbox"/> Edit Copy Delete | C013 | Ravi | 9996355626 | 8966663332 | NULL | Rno 123##Vartak | Z3 | MVE2 | E04 |
| <input type="checkbox"/> Edit Copy Delete | C014 | ShenaPawar | 9989768526 | 8882213335 | ShenaP#@gmail.com | Roomno 414##Sunshine | Z3 | MVE1 | E05 |
| <input type="checkbox"/> Edit Copy Delete | C021 | Kala | 8529637415 | 3692581478 | Kala@gmail.com | ##near bakery Sunshine rd | Z3 | MVE1 | E05 |
| <input type="checkbox"/> Edit Copy Delete | C024 | Ruhsi | 9145656799 | NULL | NULL | roomno 101##Vartak mainrd | Z3 | MVE2 | E04 |
| <input type="checkbox"/> Edit Copy Delete | C025 | Rohit Mudras | 9998882229 | 9998884444 | rohit@gmail.com | ##Vartak | Z3 | MVE2 | E04 |

Q9. Fetch Customer details by following conditions:- Customer name-starts with "A"?

→Select * from CUSTOMERS where CUSTOMER_NAME like "A%";

Server: 127.0.0.1 > Database: broadband > Table: customers

Run SQL query/queries on table broadband.customers:

```
1 /*Customer name-starts with "A"?*/
2
3 SELECT * FROM customers where CUSTOMER_NAME Like 'A%';
```

USER_ID
CUSTOMER_NAME
CONTACT_NO
ALTERNATE_NO
EMAIL_ID
ADDRESS
MANAGER_ID
OLT_NAME
ID_NO

Server: 127.0.0.1 > Database: broadband > Table: customers

Showing rows 0 - 2 (3 total, Query took 0.0005 seconds.)

```
/*Customer name-starts with "A"?*/ SELECT * FROM customers where CUSTOMER_NAME Like 'A%';
```

Number of rows: 25 Filter rows: Search this table Sort by key: None

| | USER_ID | CUSTOMER_NAME | CONTACT_NO | ALTERNATE_NO | EMAIL_ID | ADDRESS | MANAGER_ID | OLT_NAME | ID_NO |
|---|---------|---------------|------------|--------------|--------------------|-------------------------------|------------|----------|-------|
| <input type="checkbox"/> Edit Copy Delete | C001 | Ajithkumar | 9146565788 | 9145567233 | aji####@gmail.com | Room no A/402,###Rehmatnagar | Z1 | MNE1 | E10 |
| <input type="checkbox"/> Edit Copy Delete | C011 | Aayush | 8653114589 | 8896663332 | aay112##@gmail.com | Room no ,809####,Pragatinagar | Z2 | MNW1 | E09 |
| <input type="checkbox"/> Edit Copy Delete | C015 | Arvind | 8223264589 | 9996123332 | arv####@gmail.com | Room no ,007####,Pragatinagar | Z2 | MNW1 | E09 |

9b)Customer Second last word name-ends with "r"?

→Select * from CUSTOMERS where CUSTOMER_NAME like "%r_";

Server: 127.0.0.1 > Database: broadband > Table: customers

Run SQL query/queries on table broadband.customers:

```
1 /*Customer name-ends with "R"?*/
2
3 SELECT * FROM customers where CUSTOMER_NAME Like '%r';
```

USER_ID
CUSTOMER_NAME
CONTACT_NO
ALTERNATE_NO
EMAIL_ID
ADDRESS
MANAGER_ID
OLT_NAME
ID_NO

Server: 127.0.0.1 > Database: broadband > Table: customers

Show query box

Showing rows 0 - 2 (3 total, Query took 0.0006 seconds.)

```
/*Customer name-ends with "R"?*/ SELECT * FROM customers where CUSTOMER_NAME Like '%r';
```

[Edit inline] [Edit] [Create PHP code]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

| | USER_ID | CUSTOMER_NAME | CONTACT_NO | ALTERNATE_NO | EMAIL_ID | ADDRESS | MANAGER_ID | OLT_NAME | ID_NO |
|---|---------|---------------|------------|--------------|-------------------|------------------------------|------------|----------|-------|
| <input type="checkbox"/> Edit Copy Delete | C001 | Ajithkumar | 9146565788 | 9145567233 | aji####@gmail.com | Room no A/402,###Rehmatnagar | Z1 | MNE1 | E10 |
| <input type="checkbox"/> Edit Copy Delete | C006 | Mayur | 8552652396 | NULL | may##@gmail.com | roomno 303,##Vartak | Z3 | MVE2 | E04 |
| <input type="checkbox"/> Edit Copy Delete | C014 | ShenaPawar | 9989768526 | 8882213335 | ShenaP#@gmail.com | Roomnno 414##Sunshine | Z3 | MVE1 | E05 |

Q10. Fetch count of Customer details whose OLT is connected in "MNW1"?

→select count(*) as Total_Customers from CUSTOMERS where OLT_NAME in (select OLT_NAME from OLT where OLT_NAME='MNW1');

Server: 127.0.0.1 > Database: broadband > Table: customers

Run SQL query/queries on table broadband.customers:

```
1 /*Fetch count of Customer details whose OLT is connected in "MNW1"?*/
2
3 SELECT COUNT(*) AS TOTAL_CUSTOMERS FROM customers WHERE OLT_NAME IN (SELECT OLT_NAME FROM olt WHERE OLT_NAME = 'MNW1')
```

USER_ID
CUSTOMER_NAME
CONTACT_NO
ALTERNATE_NO
EMAIL_ID
ADDRESS
MANAGER_ID
OLT_NAME
ID_NO

Server: 127.0.0.1 > Database: broadband > Table: customers

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Show query box

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Your SQL query has been executed successfully.

```
/*Fetch count of Customer details whose OLT is connected in "MNW1"?*/ SELECT COUNT(*) AS TOTAL_CUSTOMERS FROM customers WHERE OLT_NAME IN (SELECT OLT_NAME FROM olt WHERE OLT_NAME = 'MNW1');
```

[Edit inline] [Edit] [Create PHP code]

Extra options

| TOTAL_CUSTOMERS |
|-----------------|
| 4 |

Q11) Fetch Customer_ID whose OLT placed in Nallasopara_West ?

→Select USER_ID from CUSTOMERS where in OLT_NAME (select OLT_NAME from OLT where in MANAGER_ID(select MANAGER_ID from ZONE_MANAGERS where ASSIGNED_AREA="Nallasopara_West"))

Server: 127.0.0.1 > Database: broadband > Table: customers

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Run SQL query/queries on table broadband.customers:

```
1 /*Fetch Customer_ID whose OLT placed in Nallasopara_West ?*/
2 Select USER_ID from CUSTOMERS where OLT_NAME in
3 (select OLT_NAME from OLT where MANAGER_ID in (select MANAGER_ID from
4 ZONE_MANAGERS where ASSIGNED_AREA="Nallasopara_West"))
```

USER_ID
CUSTOMER_NAME
CONTACT_NO
ALTERNATE_NO
EMAIL_ID
ADDRESS
MANAGER_ID
OLT_NAME
ID_NO

✓ Showing rows 0 - 4 (5 total, Query took 0.0008 seconds.)

```
/*Fetch Customer_ID whose OLT placed in Nallasopara_West ?*/ Select USER_ID from CUSTOMERS where OLT_NAME in (select OLT_NAME from OLT where MANAGER_ID in (select MANAGER_ID from ZONE_MANAGERS where ASSIGNED_AREA="Nallasopara_West"));
```

[Edit inline] [Edit] [Create PHP code]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

| | USER_ID |
|--|---------|
| <input type="checkbox"/> Edit Copy Delete C002 | |
| <input type="checkbox"/> Edit Copy Delete C009 | |
| <input type="checkbox"/> Edit Copy Delete C011 | |
| <input type="checkbox"/> Edit Copy Delete C015 | |
| <input type="checkbox"/> Edit Copy Delete C003 | |

Q12) Fetch details of CUSTOMERS(User_ID,CUSTOMER_NAME,CONTACT_NO) and details of ENGINEERS(ID_NO,ASSIGNED_AREA,CONTACT_NO), where ASSIGNED_AREA is "Rehmat Nagar" and "Ram Nagar" by using inner joins.

→Select a.User_ID as CUSTOMER_ID,a.CUSTOMER_NAME,a.CONTACT_NO as MOBILE_NUMBER,b.ID_NO asENGINEER_ID,b.ASSIGNED_AREA,b.CONTACT_NO from CUSTOMERS a inner join ENGINEERS b on a.ID_NO=b.ID_NO where b.ASSIGNED_AREA='Rehmat Nagar' or b.ASSIGNED_AREA='Ram Nagar'

order by b.ASSIGNED_AREA

Server: 127.0.0.1 > Database: broadband > Table: CUSTOMERS

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Run SQL query/queries on table broadband.CUSTOMERS:

```
1 /*Fetch details of CUSTOMERS(User_ID,CUSTOMER_NAME,CONTACT_NO) and
2 details of ENGINEERS( ID_NO,ASSIGNED_AREA,CONTACT_NO) ,where
3 ASSIGNED_AREA is "Rehmat Nagar" and "Ram Nagar" by using inner joins.*/
4 Select a.User_ID as CUSTOMER_ID,a.CUSTOMER_NAME,a.CONTACT_NO as
5 MOBILE_NUMBER,b.ID_NO asENGINEER_ID,b.ASSIGNED_AREA,b.CONTACT_NO
6 from CUSTOMERS a inner join ENGINEERS b on a.ID_NO=b.ID_NO where
7 b.ASSIGNED_AREA='Rehmat Nagar' or b.ASSIGNED_AREA='Ram Nagar' order by
8 b.ASSIGNED_AREA
```

USER_ID
CUSTOMER_NAME
CONTACT_NO
ALTERNATE_NO
EMAIL_ID
ADDRESS
MANAGER_ID
OLT_NAME
ID_NO

Server: 127.0.0.1 > Database: broadband > Table: CUSTOMERS

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Show query box

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

✅ Showing rows 0 - 5 (6 total, Query took 0.0008 seconds.) [ASSIGNED_AREA: RAM NAGAR... - REHMAT NAGAR...]

```
/*Fetch details of CUSTOMERS(User_ID,CUSTOMER_NAME,CONTACT_NO) and details of ENGINEERS( ID_NO,ASSIGNED_AREA,CONTACT_NO) ,where ASSIGNED_AREA is "Rehmat Nagar" and "Ram
Nagar" by using inner joins.*/ Select a.User_ID as CUSTOMER_ID,a.CUSTOMER_NAME,a.CONTACT_NO as MOBILE_NUMBER,b.ID_NO asENGINEER_ID,b.ASSIGNED_AREA,b.CONTACT_NO from
CUSTOMERS a inner join ENGINEERS b on a.ID_NO=b.ID_NO where b.ASSIGNED_AREA='Rehmat Nagar' or b.ASSIGNED_AREA='Ram Nagar' order by b.ASSIGNED_AREA;
```

[Edit inline] [Edit] [Create PHP code]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

| CUSTOMER_ID | CUSTOMER_NAME | MOBILE_NUMBER | asENGINEER_ID | ASSIGNED_AREA | CONTACT_NO |
|-------------|---------------|---------------|---------------|---------------|------------|
| C017 | Charu | 7722668956 | E01 | Ram Nagar | 999888777 |
| C019 | Bendre Nisha | 8884848335 | E01 | Ram Nagar | 999888777 |
| C026 | Saurandeep | 8124848335 | E01 | Ram Nagar | 999888777 |
| C001 | Ajithkumar | 9146565788 | E10 | Rehmat Nagar | 444555666 |
| C018 | Vinoth | 9116565788 | E10 | Rehmat Nagar | 444555666 |
| C022 | Hitesh | 9146565000 | E10 | Rehmat Nagar | 444555666 |

Q13) Fetch CUSTOMER_NAME,CONTACT_NO,ID_NO by using equivalent join?

→Select b.ID_NO as Engineer_ID,a.CUSTOMER_NAME,b.CONTACT_NO as Engineer_No from CUSTOMERS
a,ENGINEERS b where a.ID_NO=b.ID_NO order by CUSTOMER_NAME desc;

Server: 127.0.0.1 > Database: broadband > Table: CUSTOMERS

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Run SQL query/queries on table broadband.CUSTOMERS:

```
1 /*Fetch CUSTOMER_NAME,CONTACT_NO,ID_NO by using equivalent join?*/
2 Select b.ID_NO as Engineer_ID,a.CUSTOMER_NAME,b.CONTACT_NO as
3 Engineer_No from CUSTOMERS a,ENGINEERS b where a.ID_NO=b.ID_NO
4 order by CUSTOMER_NAME desc;
```

USER_ID
CUSTOMER_NAME
CONTACT_NO
ALTERNATE_NO
EMAIL_ID
ADDRESS
MANAGER_ID
OLT_NAME
ID_NO

Showing rows 0 - 24 (25 total, Query took 0.0010 seconds.)

/*Fetch CUSTOMER_NAME,CONTACT_NO,ID_NO by using equivalent join?*/ Select b.ID_NO as Engineer_ID,a.CUSTOMER_NAME,b.CONTACT_NO as Engineer_No from CUSTOMERS a,ENGINEERS b where a.ID_NO=b.ID_NO order by CUSTOMER_NAME desc;

[Edit inline] [Edit] [Create PHP code]

1 > >> ☐ Show all Number of rows: 25 Filter rows: Search this table

Extra options

| Engineer_ID | CUSTOMER_NAME | Engineer_No |
|-------------|---------------|-------------|
| E07 | Yash | 999888333 |
| E10 | Vinoth | 444555666 |
| E08 | Vekatesh | 111222333 |
| E02 | shrutika | 888999777 |
| E05 | ShenaPawar | 666444888 |
| E01 | Saurandeeep | 999888777 |
| E12 | Santhosh | 333555777 |
| E05 | Samirkhan | 666444888 |
| E09 | Sam | 222555888 |
| E04 | Ruhsi | 333222111 |
| E04 | Rohit Mudras | 333222111 |
| E04 | Ravi | 333222111 |
| E12 | Raghu | 333555777 |
| E03 | Pauldurai | 666777888 |
| E09 | NirmaRathod | 222555888 |
| E04 | Mayur | 333222111 |
| E03 | Manikandan | 666777888 |
| E11 | Kalidasan | 111444777 |
| E05 | Kala | 666444888 |
| E10 | Hitesh | 444555666 |
| E02 | deva Krishna | 888999777 |
| E01 | Charu | 999888777 |
| E01 | Bendre Nisha | 999888777 |
| E09 | Arvind | 222555888 |
| E10 | Ajithkumar | 444555666 |

Q14)Delete details of customer (USER_ID='C009')?

→Delete from CUSTOMERS where USER_ID='C009'

Server: 127.0.0.1 » Database: broadband » Table: CUSTOMERS

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Run SQL query/queries on table broadband.CUSTOMERS:

```

1 /*Delete details of customer (USER_ID='C009')?*/
2 Delete from CUSTOMERS where USER_ID='C009'

```

USER_ID
CUSTOMER_NAME
CONTACT_NO
ALTERNATE_NO
EMAIL_ID
ADDRESS
MANAGER_ID
OLT_NAME
ID_NO

Server: 127.0.0.1 » Database: broadband » Table: CUSTOMERS

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Show query box

1 row deleted. (Query took 0.0028 seconds.)

```

/*Delete details of customer (USER_ID='C009')?*/ Delete from CUSTOMERS where USER_ID='C009';

```

[Edit inline] [Edit] [Create PHP code]

Q15)Delete details of customer whose email is NULL?

→Delete from CUSTOMERS where EMAIL_ID is null

Server: 127.0.0.1 » Database: broadband » Table: CUSTOMERS

Run SQL query/queries on table broadband.CUSTOMERS:

```
1 /*Delete details of customer whose email is NULL?*/
2 Delete from CUSTOMERS where EMAIL_ID is null
3
```

USER_ID
CUSTOMER_NAME
CONTACT_NO
ALTERNATE_NO
EMAIL_ID
ADDRESS
MANAGER_ID
OLT_NAME
ID_NO

Server: 127.0.0.1 » Database: broadband » Table: CUSTOMERS

Show query box

✓ 5 rows deleted. (Query took 0.0025 seconds.)

```
/*Delete details of customer whose email is NULL?*/ Delete from CUSTOMERS where EMAIL_ID is null;
```

[Edit inline] [Edit] [Create PHP code]

Q18) Truncate the Customers details?

→Truncate table Customers

Server: 127.0.0.1 » Database: broadband » Table: customers

Run SQL query/queries on table broadband.customers:

```
1 /*Truncate the Customers details?*/
2 Truncate table Customers
```

USER_ID
CUSTOMER_NAME
CONTACT_NO
ALTERNATE_NO
EMAIL_ID
ADDRESS
MANAGER_ID
OLT_NAME
ID_NO

Server: 127.0.0.1 » Database: broadband » Table: customers

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Show query box

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0659 seconds.)

```
/*Truncate the Customers details?*/ Truncate table Customers;
```

[Edit inline] [Edit] [Create PHP code]

Q19) Drop OLT table?

→ Drop table Customers

Server: 127.0.0.1 » Database: broadband » Table: customers

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

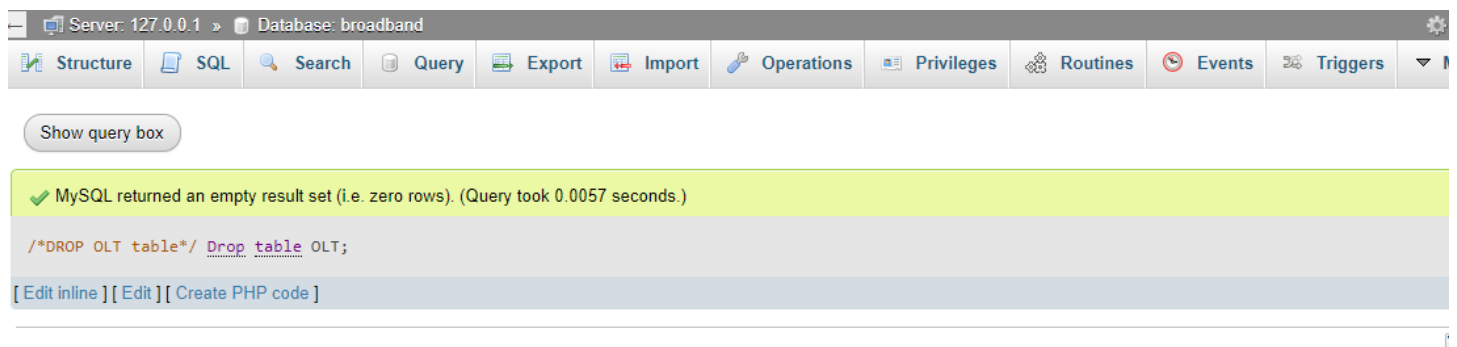
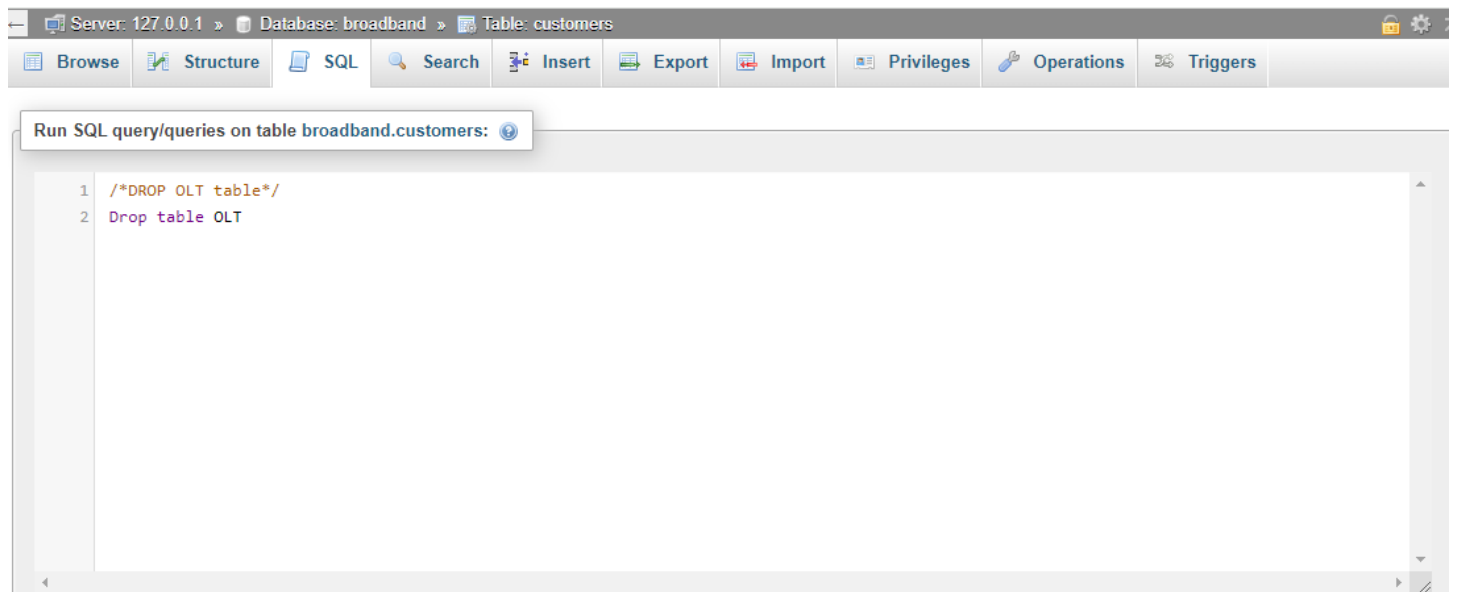
Run SQL query/queries on table broadband.customers:

```
1 /*Drop customers table?*/
2 Drop table Customers|
```

| |
|---------------|
| USER_ID |
| CUSTOMER_NAME |
| CONTACT_NO |
| ALTERNATE_NO |
| EMAIL_ID |
| ADDRESS |
| MANAGER_ID |
| OLT_NAME |
| ID_NO |

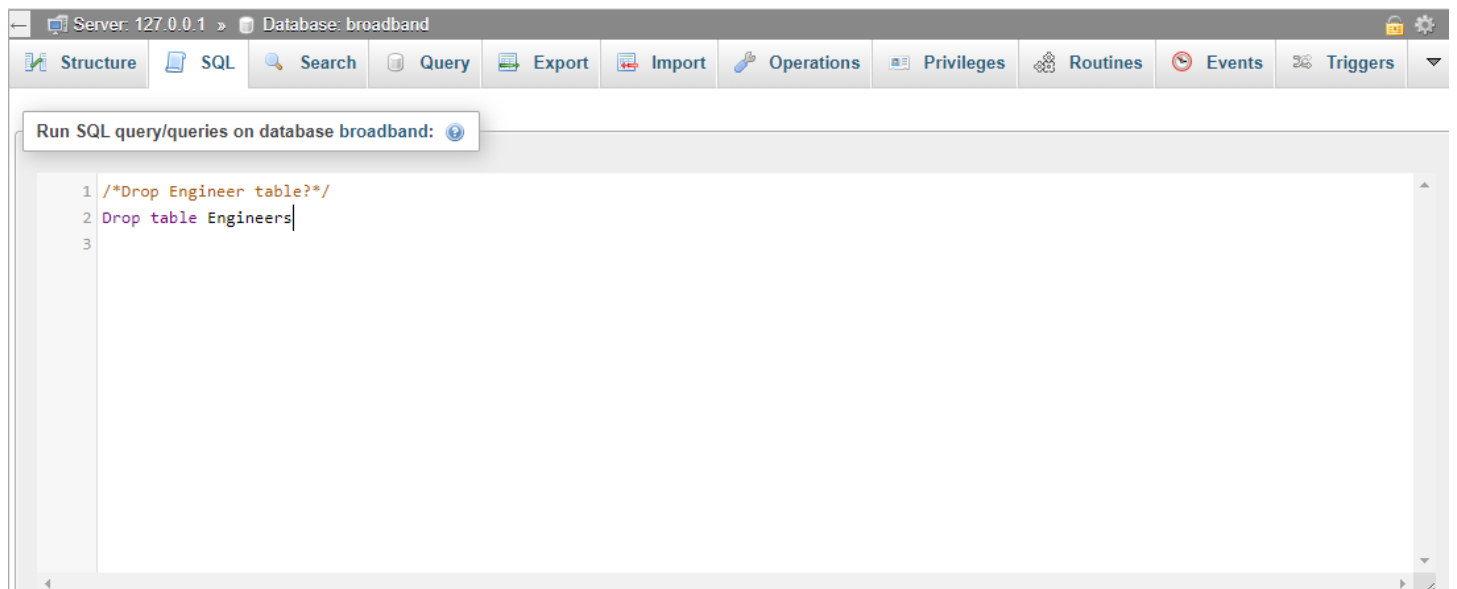
Q19) Drop OLT table?

→ Drop table OLT



Q20) Drop Engineers table?

→ Drop table Engineers



Server: 127.0.0.1 » Database: broadband

Structure SQL Search Query Export Import Operations Privileges Routines Events Triggers

Show query box

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0066 seconds.)

```
/*Drop Engineer table*/ Drop table Engineers;
```

[Edit inline] [Edit] [Create PHP code]

Q20) Drop Zone_Managers table?

→ Drop table Zone_Managers

Server: 127.0.0.1 » Database: broadband

Structure SQL Search Query Export Import Operations Privileges Routines Events Triggers

Run SQL query/queries on database broadband: ⓘ

```
1 /* Drop zone_managers table*/
2 Drop table ZONE_MANAGERS
```

Show query box

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0061 seconds.)

```
/* Drop zone_managers table*/ Drop table ZONE_MANAGERS;
```

[\[Edit inline \]](#) [\[Edit \]](#) [\[Create PHP code \]](#)