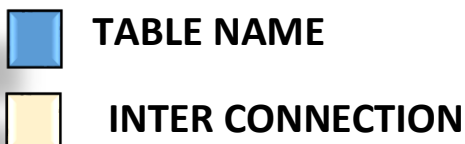
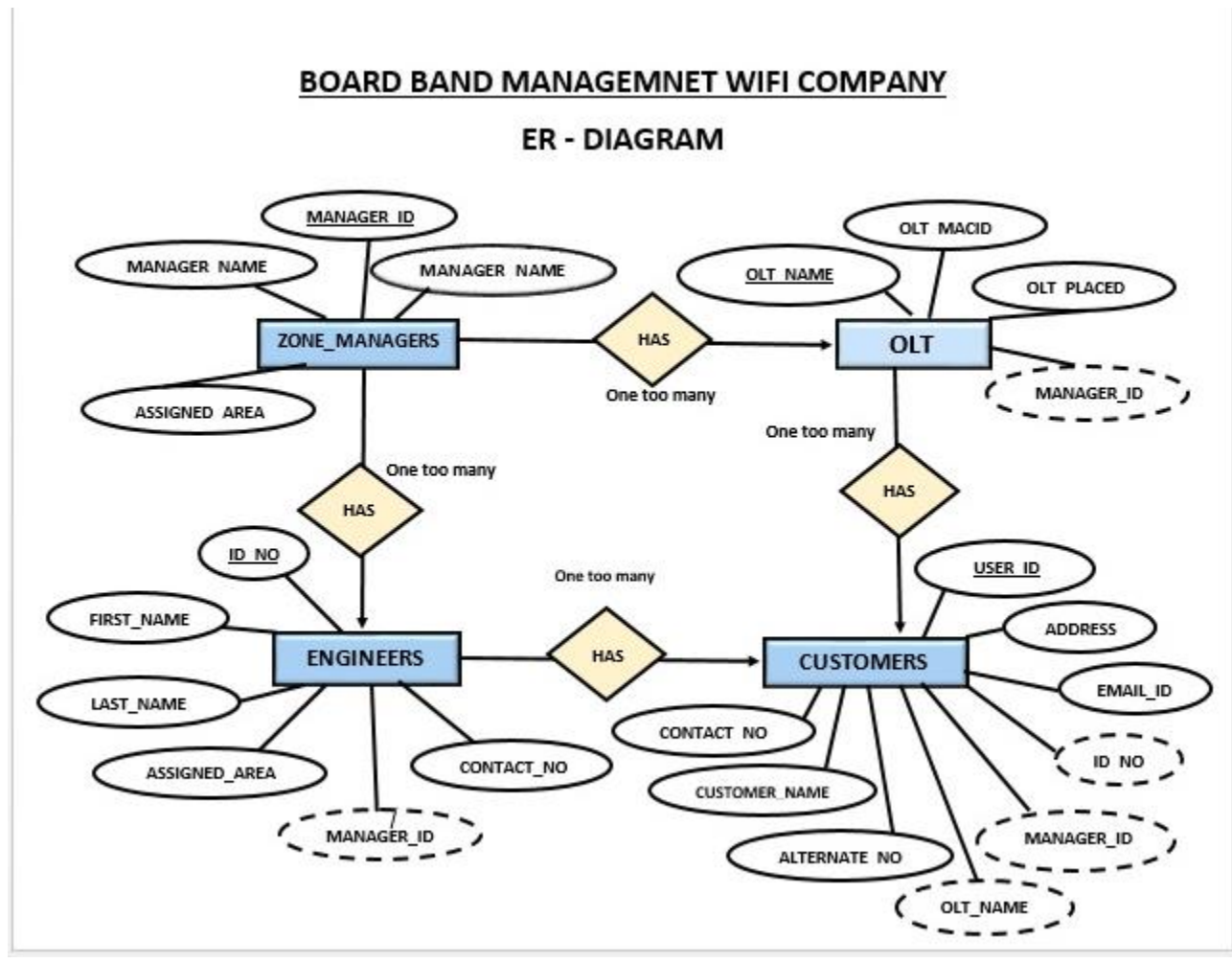


*** SQL PROJECT ***

Board band Management System (Wi-Fi-Company)



Summary:-

Project done by using **Live Oracle SQL** tool. Created **four Tables** (Zone-mangers table, OLT table, Engineers Table , Customers Table) .Inserted multiple values and interconnected tables by using **foreign keys** .Fetched Data by different conditions. For Examples :- fetched single columns, **alias**, **sub query** , **update** ,**created views**, **inner join** ,**delete**, **order by**, **truncate**, **drop in table**.

Project Link:

<https://livesql.oracle.com/apex/livesql/s/odhb5ibcuo33qg2nrifivnao1>

Created Tables:

```
Create table ZONE_MANAGERS(  
MANAGER_ID varchar(10) primary key,  
MANAGER_NAME varchar(40) NOT NULL,  
ASSIGNED_AREA varchar(40) NOT NULL,  
EXTENTION_NO number unique  
);
```

← → ↻ livesql.oracle.com/apex/f?p=590:1:16406775255432::NO:RP::

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SQL Worksheet Clear Find Actions Save Run

```
1 create table ZONE MANAGERS(  
2 MANAGER_ID varchar(10) primary key,  
3 MANAGER_NAME varchar(40) NOT NULL,  
4 ASSIGNED_AREA varchar(40) NOT NULL,  
5 EXTENTION_NO number unique  
6 );  
7
```

Table created.

create table OLT(

OLT_NAME varchar(100) primary key,

OLT_MACID varchar(100) unique,

OLT_PLACED varchar(25) NOT NULL,

MANAGER_ID varchar(10),

Foreign key(MANAGER_ID) references ZONE MANAGERS(MANAGER_ID)

);

← → ↻ livesql.oracle.com/apex/f?p=590:1:16406775255432::NO:RP::

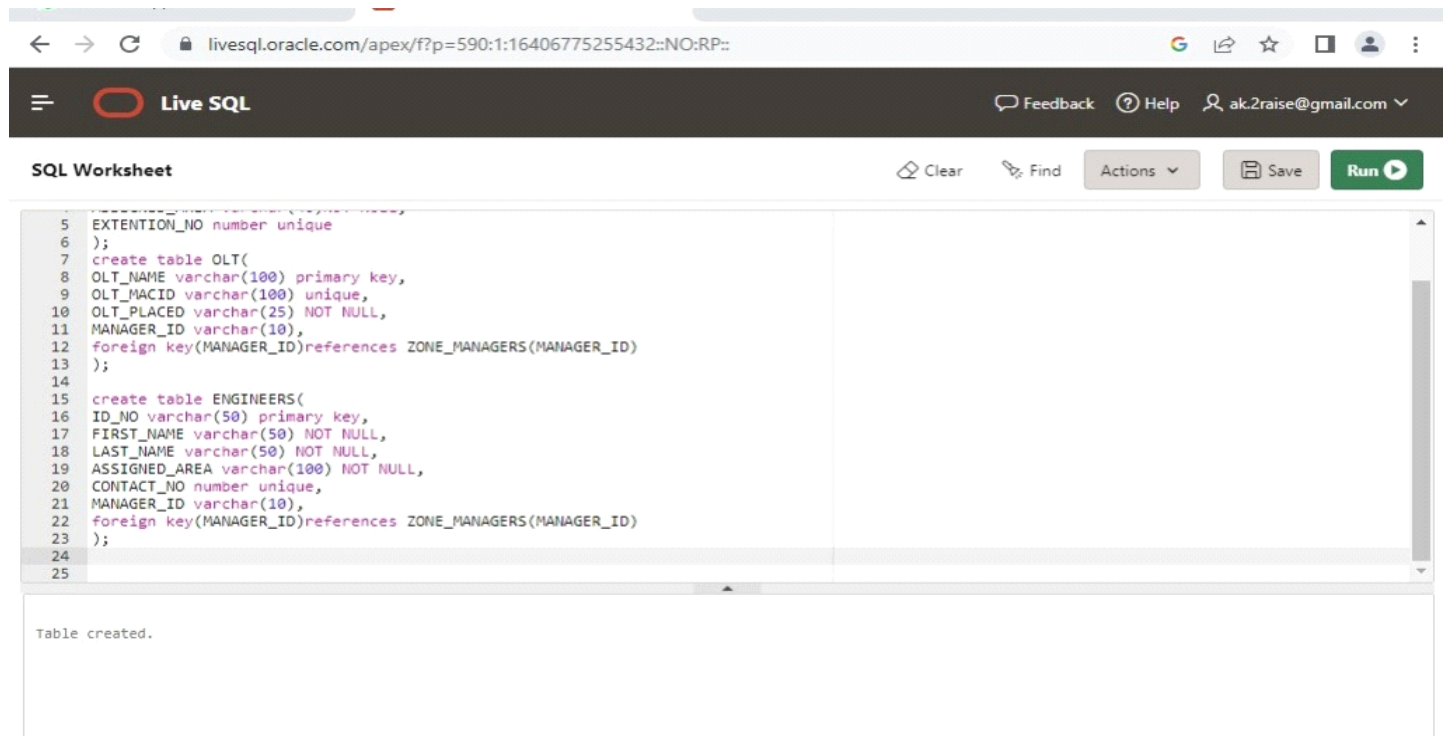
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SQL Worksheet Clear Find Actions Save Run

```
1 create table ZONE MANAGERS(  
2 MANAGER_ID varchar(10) primary key,  
3 MANAGER_NAME varchar(40) NOT NULL,  
4 ASSIGNED_AREA varchar(40) NOT NULL,  
5 EXTENTION_NO number unique  
6 );  
7 create table OLT(  
8 OLT_NAME varchar(100) primary key,  
9 OLT_MACID varchar(100) unique,  
10 OLT_PLACED varchar(25) NOT NULL,  
11 MANAGER_ID varchar(10),  
12 foreign key(MANAGER_ID) references ZONE MANAGERS(MANAGER_ID)  
13 );
```

Table created.

**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 unique,
MANAGER_ID varchar(10),
Foreign key(MANAGER_ID) references ZONE MANAGERS(MANAGER_ID)
);**



The screenshot shows a web browser window with the URL `livesql.oracle.com/apex/f?p=590:1:16406775255432::NO:RP::`. The page title is "Live SQL". Below the header, there is a "SQL Worksheet" section with a toolbar containing "Clear", "Find", "Actions", "Save", and "Run" buttons. The SQL code is entered in a text area, and the "Run" button has been clicked, resulting in a message "Table created." displayed below the code area.

```
5 EXTENSION_NO number unique
6 );
7 create table OLT(
8   OLT_NAME varchar(100) primary key,
9   OLT_MACID varchar(100) unique,
10  OLT_PLACED varchar(25) NOT NULL,
11  MANAGER_ID varchar(10),
12  foreign key(MANAGER_ID)references ZONE MANAGERS(MANAGER_ID)
13 );
14
15 create table ENGINEERS(
16   ID_NO varchar(50) primary key,
17   FIRST_NAME varchar(50) NOT NULL,
18   LAST_NAME varchar(50) NOT NULL,
19   ASSIGNED_AREA varchar(100) NOT NULL,
20   CONTACT_NO number unique,
21   MANAGER_ID varchar(10),
22   foreign key(MANAGER_ID)references ZONE MANAGERS(MANAGER_ID)
23 );
24
25
```

Table created.

**Create table CUSTOMERS(
USER_ID varchar(100) primary key,
CUSTOMER_NAME varchar(50) NOT NULL,
CONTACT_NO number(10) NOT NULL,
ALTERNATE_NO number(10) unique,**

EMAIL_ID varchar(100) unique,
ADDRESS varchar(500),
MANAGER_ID varchar(10),
OLT_NAME varchar(100),
ID_NO varchar(50),
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 web browser window with the URL `livesql.oracle.com/apex/f?p=590:1:16406775255432::NO:RP::`. The page title is "Live SQL". Below the header, there is a "SQL Worksheet" section with a text area containing the following SQL code:

```

17 FIRST_NAME varchar(50) NOT NULL,
18 LAST_NAME varchar(50) NOT NULL,
19 ASSIGNED_AREA varchar(100) NOT NULL,
20 CONTACT_NO number unique,
21 MANAGER_ID varchar(10),
22 foreign key(MANAGER_ID) references ZONE MANAGERS(MANAGER_ID)
23 );
24 create table CUSTOMERS(
25 USER_ID varchar(100) primary key,
26 CUSTOMER_NAME varchar(50) NOT NULL,
27 CONTACT_NO number(10) NOT NULL,
28 ALTERNATE_NO number(10) unique,
29 EMAIL_ID varchar(100) unique,
30 ADDRESS varchar(500),
31 MANAGER_ID varchar(10),
32 OLT_NAME varchar(100),
33 ID_NO varchar(50),
34 foreign key(MANAGER_ID) references ZONE MANAGERS(MANAGER_ID),
35 foreign key(OLT_NAME) references OLT(OLT_NAME),
36 foreign key(ID_NO) references ENGINEERS(ID_NO)
37 );

```

Below the code editor, the output shows "Table created.".

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);

← → ↻ livesql.oracle.com/apex/f?p=590:1:16406775255432::NO:RP::

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SQL Worksheet Clear Find Actions Save Run

```
30 ADDRESS varchar(500),
31 MANAGER_ID varchar(10),
32 OLT_NAME varchar(100),
33 ID_NO varchar(50),
34 foreign key(MANAGER_ID)references ZONE MANAGERS(MANAGER_ID),
35 foreign key(OLT_NAME)references OLT(OLT_NAME),
36 foreign key(ID_NO)references ENGINEERS(ID_NO)
37 );
38
39 insert into ZONE MANAGERS values('Z1','Swati','Nallasopara_East',121);
40 insert into ZONE MANAGERS values('Z2','Pooja','Nallasopara_West',129);
41 insert into ZONE MANAGERS values('Z3','Viraj','Virar_East',124);
42 insert into ZONE MANAGERS values('Z4','Swapnil','Virar_West',127);
43
44
45
46
47
48
49
50
```

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

Activate Windows
Go to Settings to activate Windows.

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 ('MNW1','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 ('MNW2','OLT-DB23','NSP(W)','Z2');

← → ↺ livesql.oracle.com/apex/f?p=590:1:16406775255432::NO:RP::

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SQL Worksheet Clear Find Actions Save Run

```

39 insert into ZONE MANAGERS values('Z1','Swati','Nallasopara_East',121);
40 insert into ZONE MANAGERS values('Z2','Pooja','Nallasopara_West',129);
41 insert into ZONE MANAGERS values('Z3','Viraj','Virar_East',124);
42 insert into ZONE MANAGERS values('Z4','Swapnil','Virar_West',127);
43
44 insert into OLT values('MNE1','OLT-DB1','NSP(E)','Z1');
45 insert into OLT values('MVE1','OLT-DB19','VR(E)','Z3');
46 insert into OLT values('MNV1','OLT-DB22','NSP(W)','Z2');
47 insert into OLT values('MVE2','OLT-DB31','VR(E)','Z3');
48 insert into OLT values('MNE2','OLT-DB61','NSP(E)','Z1');
49 insert into OLT values('MNV2','OLT-DB24','VR(W)','Z4');
50 insert into OLT values('MNV1','OLT-DB53','VR(W)','Z4');
51 insert into OLT values('MNV2','OLT-DB23','NSP(W)','Z2');
52 select * from OLT;
53
54
55

```

| OLT_NAME | OLT_MACID | OLT_PLACED | MANAGER_ID |
|----------|-----------|------------|------------|
| MNE1 | OLT-DB1 | NSP(E) | Z1 |
| MVE1 | OLT-DB19 | VR(E) | Z3 |
| MNV1 | OLT-DB22 | NSP(W) | Z2 |
| MVE2 | OLT-DB31 | VR(E) | Z3 |
| MNE2 | OLT-DB61 | NSP(E) | Z1 |
| MNV2 | OLT-DB24 | VR(W) | Z4 |
| MNV1 | OLT-DB53 | VR(W) | Z4 |

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ENGINEERS Table

```

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');

```


Live SQL

Feedback

Help

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SQL Worksheet

Clear

Find

Actions

Save

Run

```

54 insert into ENGINEERS values('E01','Akash','Singh','Ram Nagar',0999888777,'Z4');
55 insert into ENGINEERS values('E02','Sam','Pillai','phase1',0888999777,'Z4');
56 insert into ENGINEERS values('E03','Vignesh','Kumar','Vivacollege Road',0666777888,'Z4');
57 insert into ENGINEERS values('E04','Sada','Sandeep','Vartak',0333222111,'Z3');
58 insert into ENGINEERS values('E05','Pramod','Kumar','Sunshine',0666444888,'Z3');
59 insert into ENGINEERS values('E06','Santosh','Pradeep','Dmart Road',011222333,'Z3');
60 insert into ENGINEERS values('E07','Deepak','Rathod','Indra nagar',0999666333,'Z2');
61 insert into ENGINEERS values('E08','Venkat','Rathod','90feet Road',0888555222,'Z2');
62 insert into ENGINEERS values('E09','Narsa','Singh','Pragati Nagar',0222555888,'Z2');
63 insert into ENGINEERS values('E10','Manoj','Vasant','Rehmat Nagar',0444555666,'Z1');
64 insert into ENGINEERS values('E11','Sandeep','Kumar','Nagindas',0111444777,'Z1');
65 insert into ENGINEERS values('E12','Sachin','Mudras','Oswtel',0333555777,'Z1');
66 select * from ENGINEERS;
67
68
69

```

| ID_NO | FIRST_NAME | LAST_NAME | ASSIGNED_AREA | CONTACT_NO | MANAGER_ID |
|-------|------------|-----------|------------------|------------|------------|
| E01 | Akash | Singh | Ram Nagar | 999888777 | Z4 |
| E02 | Sam | Pillai | phase1 | 888999777 | Z4 |
| E03 | Vignesh | Kumar | Vivacollege Road | 666777888 | Z4 |
| E04 | Sada | Sandeep | Vartak | 333222111 | Z3 |
| E05 | Pramod | Kumar | Sunshine | 666444888 | Z3 |
| E06 | Santosh | Pradeep | Dmart Road | 111222333 | Z3 |
| E07 | Deepak | Rathod | Indra nagar | 999666333 | Z2 |

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CUSTOMERS Table

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','Roomnno
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 CUSTOMERS
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','Saurandeeep',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')

← → ↺ livesql.oracle.com/apex/?p=590:1:16406775255432::NO:RP::

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SQL Worksheet Clear Find Actions Save Run

```
83 insert into CUSTOMERS values('C016','shrutika',9665487896,9228855465,'shr@gmail.com','Room002##phase1','Z4','MVW1','E02');
84 insert into CUSTOMERS values('C017','Charu',7722668956,8978798978,'charu@gmail.com','##near Ram Nagar','Z4','MVW2','E01');
85 insert into CUSTOMERS values('C018','Vinoth',9116565788,null,'vi####@gmail.com','002##Rehmatnagar','Z1','MNE1','E10');
86 insert into CUSTOMERS values('C019','Bendre Nisha',8884848335,8184848335,'bendre@gmail.com','Roomno303##Ram Nagar','Z4','MVW2','E01');
87 insert into CUSTOMERS values('C020','Selvi',9145116573,8145116777,null,'Roomno 221##Ram Nagar','Z4','MVW2','E01');
88 insert into CUSTOMERS values('C021','Kala',8529637415,3692581478,'Kala@gmail.com','##near bakery Sunshine rd','Z3','MVE1','E05');
89 insert into CUSTOMERS values('C022','Hitesh',9146565000,9123567233,'hit23####@gmail.com','Room no d/301,###Rehmatnagar','Z1','MNE1','E10');
90 insert into CUSTOMERS values('C023','Kalidasan',8145116578,null,'kali####@gmail.com','Room no A/002,###nagindas','Z1','MNE2','E11');
91 insert into CUSTOMERS values('C024','Ruhsi',9145656799,null,null,'roomno 101##Vartak mainrd','Z3','MVE2','E04');
92 insert into CUSTOMERS values('C025','Rohit Mudras',9998882229,9998884444,'rohit@gmail.com','##Vartak','Z3','MVE2','E04');
93 insert into CUSTOMERS values('C026','Saurandeeep',8124848335,9126368526,'saura@gmail.com','Room no 404##Ram Nagar','Z4','MVW2','E01');
94 insert into CUSTOMERS values('C027','deva Krishna',8224848335,null,'deva@gmail.com','Room no near vedant school,phase1','Z4','MVW1','E02')
95 select * from CUSTOMERS;
96
97
98
99
```

| ID_NO | FIRST_NAME | LAST_NAME | ASSIGNED_AREA | CONTACT_NO | MANAGER_ID |
|-------|------------|-----------|------------------|------------|------------|
| E01 | Akash | Singh | Ram Nagar | 999888777 | Z4 |
| E02 | Sam | Pillai | phase1 | 888999777 | Z4 |
| E03 | Vignesh | Kumar | Vivacollege Road | 666777888 | Z4 |
| E04 | Sada | Sandeep | Vartak | 333222111 | Z3 |
| E05 | Pramod | Kumar | Sunshine | 666444888 | Z3 |
| E06 | Santosh | Pradeep | Dmart Road | 111222333 | Z3 |
| E07 | Deepak | Rathod | Indra nagar | 999666333 | Z2 |

Activate Windows Go to Settings to activate Windows.

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Performed Following Conditions:-

Q1 .Describe ZONE MANAGERS table Structure?

→ Desc ZONE MANAGERS;

The screenshot shows the Oracle Live SQL interface. The SQL Worksheet contains the following code:

```
89 insert into CUSTOMERS values('C022','Hitesh',9146565000,9123567233,'hit23###@gmail.com','Room no d/301,###Rehmatnagar','Z1','MNE1','E10');
90 insert into CUSTOMERS values('C023','Kalidasan',8145116578,null,'kali###@gmail.com','Room no A/002,###nagindas','Z1','MNE2','E11');
91 insert into CUSTOMERS values('C024','Ruhsi',9145656799,null,null,'roomno 101##Vartak mainrd','Z3','MVE2','E04');
92 insert into CUSTOMERS values('C025','Rohit Mudras',9998882229,9998884444,'rohit@gmail.com','##Vartak','Z3','MVE2','E04');
93 insert into CUSTOMERS values('C026','Saurandeep',8124848335,9126368526,'saura@gmail.com','Room no 404##Ram Nagar','Z4','MW2','E01');
94 insert into CUSTOMERS values('C027','deva Krishna',8224848335,null,'deva@gmail.com','Room no near vedant school,phase1','Z4','MW1','E02')
95 select * from CUSTOMERS;
96
97 ---1)Describing ZONE MANAGERS table Structure .
98
99 desc ZONE MANAGERS;|
100
101
102
103
104
```

The results section displays the structure of the ZONE MANAGERS table:

| Column | Null? | Type |
|---------------|----------|--------------|
| MANAGER_ID | NOT NULL | VARCHAR2(10) |
| MANAGER_NAME | NOT NULL | VARCHAR2(40) |
| ASSIGNED_AREA | NOT NULL | VARCHAR2(40) |
| EXTENTION_NO | - | NUMBER |

Download CSV
4 rows selected.

Q2. Fetch all Zone managers Table?

→ Select * from ZONE MANAGERS;

The screenshot shows the Oracle Live SQL interface. The SQL Worksheet contains the following code:

```
103
104
105
106
107
108 ---2) Fetching all Zonemanagers Table .
109
110 select * from ZONE MANAGERS;
111
112
113
114
115
116
117
```

The results section displays the data from the ZONE MANAGERS table:

| MANAGER_ID | MANAGER_NAME | ASSIGNED_AREA | EXTENTION_NO |
|------------|--------------|------------------|--------------|
| Z1 | Swati | Nallasopara_East | 121 |
| Z2 | Pooja | Nallasopara_West | 129 |
| Z3 | Viraj | Virar_East | 124 |
| Z4 | Swapnil | Virar_West | 127 |

Download CSV
4 rows selected.

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

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

The screenshot shows the Live SQL interface with a query entered in the editor:

```
---3) Fetching Zonemanagers name of assigned_zone Nallasopara-East  
select MANAGER_NAME from ZONE_MANAGERS where ASSIGNED_AREA='Nallasopara_East';
```

The results pane displays a table with one column, MANAGER_NAME, and one row with the value Swati.

| MANAGER_NAME |
|--------------|
| Swati |

Below the table is a "Download CSV" button.

Q4. Rename column OLT_NAME temporary?

→ Select OLT_NAME as OLT_No_id from OLT;

The screenshot shows the Live SQL interface with a query entered in the editor:

```
--4) Renaming column OLT_NAME and Updating some data in column OLT_MACID of OLT table .  
select OLT_NAME as "OLT_No_id" from OLT;
```

The results pane displays a table with one column, OLT_No_id, and eight rows of data.

| OLT_No_id |
|-----------|
| MVE1 |
| MVE2 |
| MW1 |
| MW2 |
| MVE1 |
| MVE2 |
| MW1 |
| MW2 |

Below the table is a "Download CSV" button and the text "8 rows selected."

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

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

The screenshot shows the Live SQL interface with the following SQL query entered in the worksheet:

```
--5) Updating OLT_MACID ("OLTNew-DB22") "MNW1" of OLT_NAME .  
update OLT set OLT_MACID='OLTNew-DB22' where OLT_NAME='MNW1';  
select * from OLT;
```

The result shows "1 row(s) updated." and a table with the following data:

| OLT_NAME | OLT_MACID | OLT_PLACED | MANAGER_ID |
|----------|-------------|------------|------------|
| MNE1 | OLT-DB1 | NSP(E) | Z1 |
| MVE1 | OLT-DB19 | VR(E) | Z3 |
| MNW1 | OLTNew-DB22 | NSP(W) | Z2 |
| MVE2 | OLT-DB31 | VR(E) | Z3 |
| MNE2 | OLT-DB61 | NSP(E) | Z1 |
| MNW2 | OLT-DB24 | VR(W) | Z4 |
| MNW1 | OLT-DB53 | VR(W) | Z4 |
| MNW2 | OLT-DB23 | NSP(W) | Z2 |

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;

The screenshot shows the Live SQL interface with the following SQL query entered in the worksheet:

```
--5) Fetching unique ID_NO and sorting ascending.  
select distinct(ID_NO),OLT_NAME from CUSTOMERS where ID_NO in (select ID_NO from ENGINEERS)order by ID_NO;
```

The result shows a table with the following data:

| ID_NO | OLT_NAME |
|-------|----------|
| E01 | MNW2 |
| E02 | MNW1 |
| E03 | MNW2 |
| E04 | MVE2 |
| E05 | MVE1 |
| E06 | MVE2 |
| E07 | MNW2 |
| E09 | MNW1 |
| E10 | MNE1 |
| E11 | MNE2 |
| 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 fetch first 3 rows only;

The screenshot shows the Live SQL interface with a SQL Worksheet. The query entered is: `--7) Fetching 3 rows ENGINEERS details and sorting column FIRST_NAME descending order from ENGINEERS table .`
`select * from ENGINEERS order by FIRST_NAME desc fetch first 3 rows only;`

The result is displayed as a table with 6 columns: ID_NO, FIRST_NAME, LAST_NAME, ASSIGNED_AREA, CONTACT_NO, and MANAGER_ID. It shows 3 rows of data.

| ID_NO | FIRST_NAME | LAST_NAME | ASSIGNED_AREA | CONTACT_NO | MANAGER_ID |
|-------|------------|-----------|------------------|------------|------------|
| E03 | Vignesh | Kumar | Vivacollege Road | 666777888 | Z4 |
| E08 | Venkat | Rathod | 90feet Road | 888555222 | Z2 |
| E06 | Santosh | Pradeep | Dmart Road | 111222333 | Z3 |

Download CSV
3 rows selected.

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')

The screenshot shows the Live SQL interface with a SQL Worksheet. The query entered is: `--8) Fetching Customers details of virar-east zone .`
`select * from CUSTOMERS where MANAGER_ID in(select MANAGER_ID from ZONE_MANAGERS where ASSIGNED_AREA='Virar_East')`

The result is displayed as a table with 9 columns: USER_ID, CUSTOMER_NAME, CONTACT_NO, ALTERNATE_NO, EMAIL_ID, ADDRESS, MANAGER_ID, OLT_NAME, and ID_NO. It shows 8 rows of data.

| USER_ID | CUSTOMER_NAME | CONTACT_NO | ALTERNATE_NO | EMAIL_ID | ADDRESS | MANAGER_ID | OLT_NAME | ID_NO |
|---------|---------------|------------|--------------|------------------|---------------------------|------------|----------|-------|
| C006 | Mayur | 8552652396 | - | mayr@gmail.com | roomno 303,##Vartak | Z3 | MVE2 | E04 |
| C007 | Vekatesh | 6665553231 | 7896585645 | - | Roomno222,##Dmart Road | Z3 | MVE2 | E06 |
| C010 | Sanirkhan | 8787989894 | 8788558745 | sanir@gmail.com | 111,##Sunshine | Z3 | MVE1 | E05 |
| C013 | Ravi | 9996355626 | 8966663332 | - | Rno 123##Vartak | Z3 | MVE2 | E04 |
| C014 | ShenaPawar | 9989768526 | 8882213335 | ShenaP@gmail.com | Roomno 414##Sunshine | Z3 | MVE1 | E05 |
| C021 | Kala | 8529637415 | 3692581478 | Kala@gmail.com | ##near bakery Sunshine rd | Z3 | MVE1 | E05 |
| C024 | Ruhsi | 9145656799 | - | - | roomno 101##Vartak mainrd | Z3 | MVE2 | E04 |
| C025 | Rohit Hudras | 9998882229 | 9998884444 | rohit@gmail.com | ##Vartak | Z3 | MVE2 | E04 |

Download CSV
8 rows selected.

Q9. Fetch Customer details by following conditions:-

9a) Customer name-starts with "A"?

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

The screenshot shows the Live SQL interface with a SQL Worksheet. The query entered is: `select * from CUSTOMERS where CUSTOMER_NAME like 'A%';`. The results table displays 3 rows of customer data.

| USER_ID | CUSTOMER_NAME | CONTACT_NO | ALTERNATE_NO | EMAIL_ID | ADDRESS | MANAGER_ID | OLT_NAME | ID_NO |
|---------|---------------|------------|--------------|--------------------|-------------------------------|------------|----------|-------|
| C001 | Ajithkumar | 9146565788 | 9145567233 | aji####@gmail.com | Room no A/402,###Rehmatnagar | Z1 | MVN1 | E10 |
| C011 | Aayush | 8653114589 | 8896663332 | aay112##@gmail.com | Room no ,809####,Pragatinagar | Z2 | MVN1 | E09 |
| C015 | Arvind | 8223264589 | 9996123332 | arv##@gmail.com | Room no ,007####,Pragatinagar | Z2 | MVN1 | E09 |

Download CSV
3 rows selected.

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

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

The screenshot shows the Live SQL interface with a SQL Worksheet. The query entered is: `select * from CUSTOMERS where CUSTOMER_NAME like '%r_';`. The results table displays 1 row of customer data.

| USER_ID | CUSTOMER_NAME | CONTACT_NO | ALTERNATE_NO | EMAIL_ID | ADDRESS | MANAGER_ID | OLT_NAME | ID_NO |
|---------|---------------|------------|--------------|-----------------|------------------|------------|----------|-------|
| C017 | Charu | 7722688956 | 8978798978 | charu@gmail.com | ##near Ram Nagar | Z4 | MVN2 | E01 |

Download CSV

9c) Customer name ends with "p"?

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

The screenshot shows the Live SQL interface with a sidebar on the left containing navigation options: Home, SQL Worksheet, My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains a code editor with the following SQL query:

```
-->c) Customer name ends with "p"  
select * from CUSTOMERS where CUSTOMER_NAME like '%p';
```

Below the code editor, a table of results is displayed:

| USER_ID | CUSTOMER_NAME | CONTACT_NO | ALTERNATE_NO | EMAIL_ID | ADDRESS | MANAGER_ID | OLT_NAME | ID_NO |
|---------|---------------|------------|--------------|-----------------|------------------------|------------|----------|-------|
| C026 | Saurandeep | 8124848335 | 9126368526 | saura@gmail.com | Room no 404##Ram Nagar | Z4 | MW42 | E01 |

At the bottom of the interface, there is a footer with copyright information and an 'Activate Windows' watermark.

9d) Customer name between start with "H" and end with "h"?

→Select * from CUSTOMERS where CUSTOMER_NAME like 'H%h';

The screenshot shows the Live SQL interface with a sidebar on the left containing navigation options: Home, SQL Worksheet, My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains a code editor with the following SQL query:

```
-->d) Customer name between start with "H" and end with "h"  
select * from CUSTOMERS where CUSTOMER_NAME like 'H%h';
```

Below the code editor, a table of results is displayed:

| USER_ID | CUSTOMER_NAME | CONTACT_NO | ALTERNATE_NO | EMAIL_ID | ADDRESS | MANAGER_ID | OLT_NAME | ID_NO |
|---------|---------------|------------|--------------|---------------------|------------------------------|------------|----------|-------|
| C022 | Hitesh | 9146565000 | 9123567233 | hit23####@gmail.com | Room no d/301,###Rehmatnagar | Z1 | MVE1 | E10 |

At the bottom of the interface, there is a footer with copyright information and an 'Activate Windows' watermark.

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');

The screenshot shows the Live SQL interface. The SQL Worksheet contains the following query:

```
--10) Fetching 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');
```

The result is displayed in a table:

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

Below the table, it says "Download CSV". The footer of the interface shows "© 2022 Oracle - Live SQL 22.3.1, running Oracle Database 19c Enterprise Edition - 19.14.0.0.0 - Database Documentation - Ask Tom - Dev Gym" and "Built with ♥ using Oracle APEX - Privacy - Terms of Use".

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"))

The screenshot shows the Live SQL interface. The SQL Worksheet contains the following query:

```
--11) Fetching 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'))
```

The result is displayed in a table:

| USER_ID |
|---------|
| C002 |
| C003 |
| C009 |
| C011 |
| C015 |

Below the table, it says "Download CSV" and "5 rows selected.". The footer of the interface shows "© 2022 Oracle - Live SQL 22.3.1, running Oracle Database 19c Enterprise Edition - 19.14.0.0.0 - Database Documentation - Ask Tom - Dev Gym" and "Built with ♥ using Oracle APEX - Privacy - Terms of Use".

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

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SQL Worksheet Clear Find Actions Save Run

```
--12)Fetching 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 as ENGINEER_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
```

| CUSTOMER_ID | CUSTOMER_NAME | MOBILE_NUMBER | ENGINEER_ID | ASSIGNED_AREA | CONTACT_NO |
|-------------|---------------|---------------|-------------|---------------|------------|
| C019 | Bendre Nisha | 8884848335 | E01 | Ram Nagar | 999888777 |
| C020 | Selvi | 9145116573 | E01 | Ram Nagar | 999888777 |
| C026 | Saurandeep | 8124848335 | E01 | Ram Nagar | 999888777 |
| C017 | Charu | 7722668956 | E01 | Ram Nagar | 999888777 |
| C018 | Vinoth | 9116565788 | E10 | Rehmat Nagar | 444555666 |
| C022 | Hitesh | 9146565000 | E10 | Rehmat Nagar | 444555666 |
| C001 | Ajithkumar | 9146565788 | E10 | Rehmat Nagar | 444555666 |

Download CSV
7 rows selected.

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Q13) Fetch CUSTOMER_NAME,CONTACT_NO,ID_NO by using equivelent 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;

Live SQL

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SQL Worksheet Clear Find Actions Save Run

```
113
114
115 --13) Fetching CUSTOMER_NAME, CONTACT_NO, ID_NO by using equijoin.
116 select b.ID_NO, 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;
117
118
```

| ID_NO | CUSTOMER_NAME | ENGINEER_NO |
|-------|---------------|-------------|
| E02 | shrutika | 888999777 |
| E02 | deva Krishna | 888999777 |
| E07 | Yash | 999666333 |
| E10 | Vinoth | 444555666 |
| E06 | Vekatesh | 111222333 |
| E05 | Shenapawan | 666444888 |
| E01 | Selvi | 999888777 |
| E01 | Saurandeep | 999888777 |
| E12 | Santhosh | 333555777 |
| E05 | Samir Khan | 666444888 |
| E09 | Sam | 222555666 |
| E04 | Ruhsi | 333222111 |
| E04 | Rohit Mudras | 333222111 |

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

→ Delete from CUSTOMERS where USER_ID='C009'

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Live SQL

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SQL Worksheet Clear Find Actions Save Run

```
119
120 --14) Deleting details of customer (USER_ID='C009')
121 delete from CUSTOMERS where USER_ID='C009';
122
123
124
125
126
127
128
```

1 row(s) deleted.

Activate Windows
Go to Settings to activate Windows.

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ENG 3:32 PM
IN 11/21/2022

Q15) Delete details of customer whose email is NULL?

→Delete from CUSTOMERS where EMAIL_ID is null

The screenshot shows the Oracle Live SQL interface. The SQL Worksheet contains the following code:

```
--15) Deleting details of customer whose email is null
delete from CUSTOMERS where EMAIL_ID is null
```

The execution result shows "6 row(s) deleted." The interface includes a top navigation bar with "Live SQL" and a user profile "ak.2raise@gmail.com". The bottom status bar indicates the environment is Oracle Live SQL 22.3.1, running Oracle Database 19c Enterprise Edition.

Q16) Create View table as (All_filled_data)?

→Create view All_filled_data as select * from CUSTOMERS where ALTERNATE_NO is not null select * from All_filled_data

The screenshot shows the Oracle Live SQL interface. The SQL Worksheet contains the following code:

```
--16) Creating View table as (All_filled_data)
create view All_filled_data as select * from CUSTOMERS where ALTERNATE_NO is not null
select * from All_filled_data
```

The execution result shows "16 rows selected." Below the code, a table of data is displayed:

| CID | NAME | PHONE1 | PHONE2 | EMAIL | ROOMNO | PHASE | WING | FLOOR |
|------|--------------|------------|------------|-------------------|------------------------------|-------|------|-------|
| C010 | Samir Khan | 8787989894 | 8788558745 | samir@gmail.com | 111,##Sunshine | 23 | HVW1 | E05 |
| C011 | Aayush | 8653114589 | 8896663332 | asy112##@mail.com | Room no ,809###,Pragatinagar | 22 | MW1 | E09 |
| C014 | Shenapawar | 9989768526 | 8882213335 | Shenap@gmail.com | Roomno 414##Sunshine | 23 | HVW1 | E05 |
| C015 | Arvind | 8223264589 | 9996123332 | arv##@mail.com | Room no ,007###,Pragatinagar | 22 | MW1 | E09 |
| C016 | shrutika | 9665487896 | 9228855465 | shr@gmail.com | Room002##phase1 | 24 | MW1 | E02 |
| C017 | Charu | 7722668956 | 8978798978 | charu@gmail.com | ##near Ram Nagar | 24 | HVW2 | E01 |
| C019 | Bendre Nisha | 8884848335 | 8184848335 | bendre@gmail.com | Roomno303##Ram Nagar | 24 | HVW2 | E01 |
| C021 | Kala | 8529637415 | 3692581478 | kala@gmail.com | ##near bakery Sunshine rd | 23 | HVW1 | E05 |
| C022 | Hitesh | 9146565800 | 9123567233 | hit23###@mail.com | Room no d/301,##Rehmatnagar | 21 | HVW1 | E10 |
| C025 | Rohit Mudras | 9998882229 | 9998884444 | rohit@gmail.com | ##vartak | 23 | HVW2 | E04 |
| C026 | Saurandeep | 8124848335 | 9126368526 | saura@gmail.com | Room no 404##Ram Nagar | 24 | HVW2 | E01 |

The interface includes a top navigation bar with "Live SQL" and a user profile "ak.2raise@gmail.com". The bottom status bar indicates the environment is Oracle Live SQL 22.3.1, running Oracle Database 19c Enterprise Edition.

Q17) Create View table as **Nallasopara_East_Details** of Nsp Customers data?

→ Create view **Nallasopara_East_Details** as select * from **All_filled_data** where **MANAGER_ID='Z1'** select * from **Nallasopara_East_Details**

Live SQL

SQL Worksheet

```
--17) Created View table as Nallasopara_East_Details of Nsp Customers datas
create view Nallasopara_East_Details as select * from All_filled_data where MANAGER_ID='Z1'
select * from Nallasopara_East_Details
```

| USER_ID | CUSTOMER_NAME | CONTACT_NO | ALTERNATE_NO | EMAIL_ID | ADDRESS | MANAGER_ID | OLT_NAME | ID_NO |
|---------|---------------|------------|--------------|---------------------|------------------------------|------------|----------|-------|
| C001 | Ajithkumar | 9146565788 | 9145567233 | aji####@gmail.com | Room no A/402,###Rehmatnagar | Z1 | MVE1 | E10 |
| C005 | Santhosh | 9141562138 | 9145560003 | sani####@gmail.com | Room no 302,###OSTHIAL | Z1 | MVE2 | E12 |
| C022 | Hitesh | 9146565000 | 9123567233 | hit23####@gmail.com | Room no d/301,###Rehmatnagar | Z1 | MVE1 | E10 |

Download CSV
3 rows selected.

Q18) Truncate the Customers details?

→ Truncate table **Customers**

Live SQL

SQL Worksheet

```
--18) Truncating the Enginners details
truncate table Customers
```

Table truncated.

Q19) Drop OLT table?

→ Drop table Customers ----- child table

→ Drop table OLT ----- parent table

The screenshot shows the Live SQL interface. The top bar includes the 'Live SQL' logo, a 'Feedback' button, a 'Help' button, and a user profile 'ak.2raise@gmail.com'. Below the top bar is a 'SQL Worksheet' section with a 'Clear' button, a 'Find' button, an 'Actions' dropdown, a 'Save' button, and a 'Run' button. The main area contains a SQL editor with the following code:

```
152  
153  
154  
155  
156 --19) Dropping OLT table  
157 drop table Customers ----- child table  
158 drop table OLT ----- parent table  
159  
160  
161
```

Below the editor, the output area displays the message: 'Table dropped.'

Q20) Drop Zone Manager table?

→ Drop table Engineers -----child table

→ Drop table ZONE_MANAGERS -----parent table

The screenshot shows the Live SQL interface. The top bar includes the 'Live SQL' logo, a 'Feedback' button, a 'Help' button, and a user profile 'ak.2raise@gmail.com'. Below the top bar is a 'SQL Worksheet' section with a 'Clear' button, a 'Find' button, an 'Actions' dropdown, a 'Save' button, and a 'Run' button. The main area contains a SQL editor with the following code:

```
160  
161 --20) Dropping Zone Manager table  
162  
163 drop table Engineers -----child table  
164 drop table ZONE_MANAGERS-----parent table  
165  
166  
167  
168  
169
```

Below the editor, the output area displays the message: 'Table dropped.'