

*** SQL PROJECT ***

Board band Management System (Wi-Fi-Company)

BOARD BAND MANAGEMNET WIFI COMPANY

ER - DIAGRAM

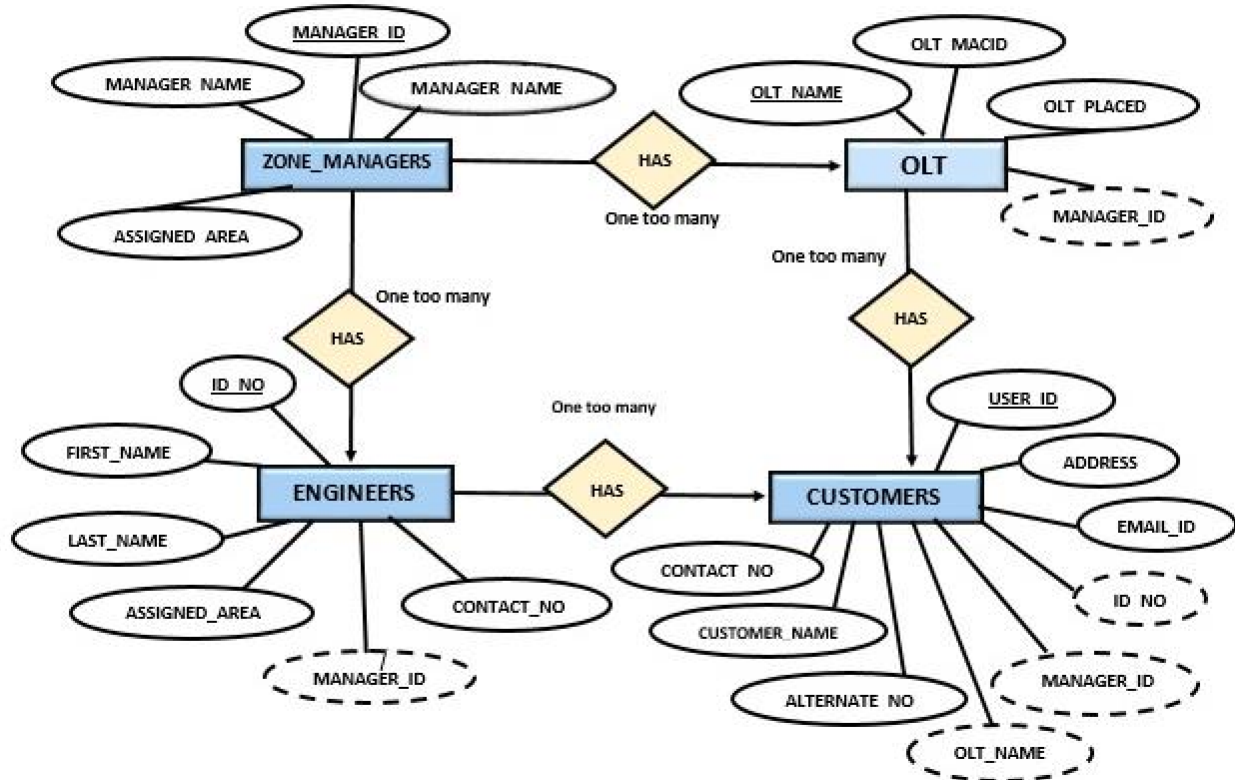


TABLE NAME



INTER CONNECTION



PRIMARY KEY



FOREIGN KEY

Summary:-

Project done by using platform **Live Oracle SQL** tool. Created **four Tables** (Zone- managers 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.**

Link of Project:-

Download the project link pdf mentioned in main page of

[**BOARD BAND MANAGEMENT SYSTEM-SQL PROJECT/Project Link.pdf**](#)

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)
);**

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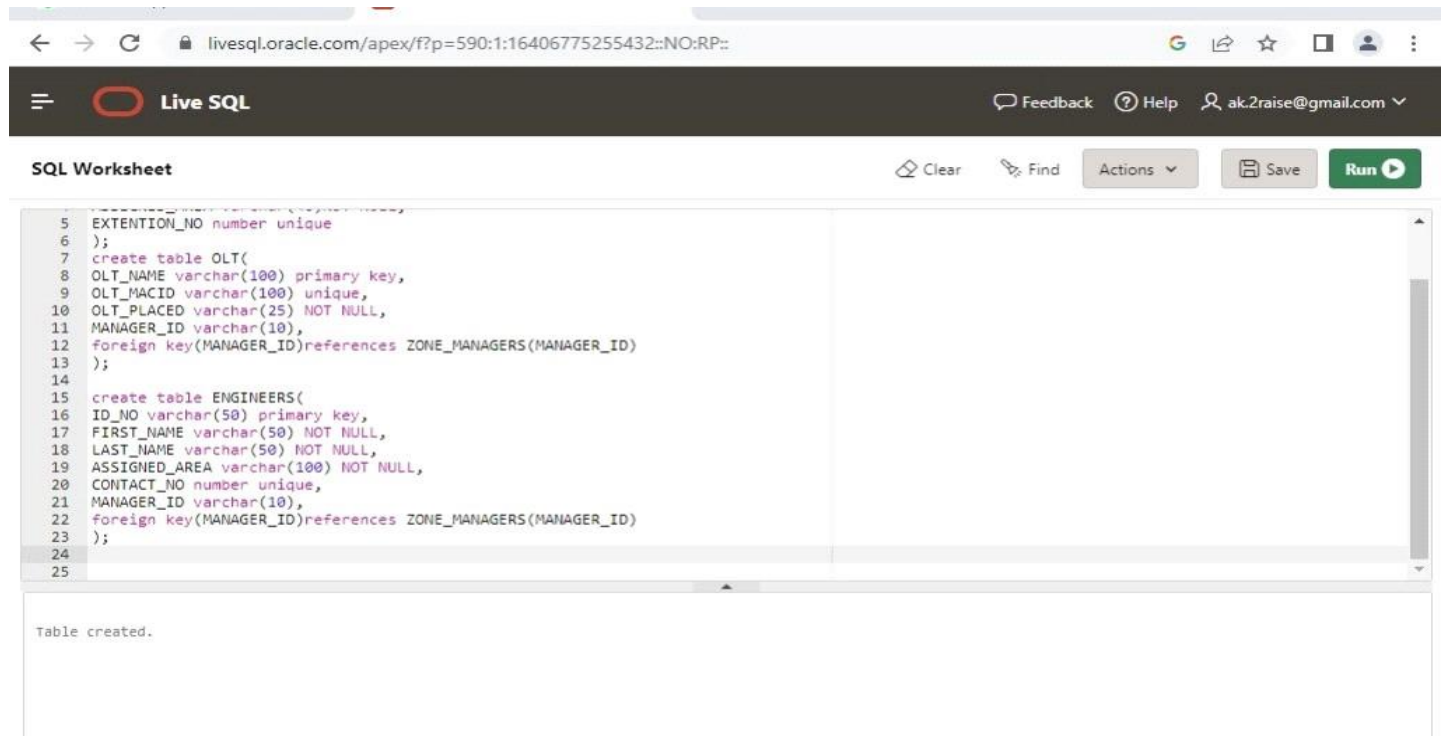
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SQL Worksheet Clear Find Actions Save Run

```
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)
);**



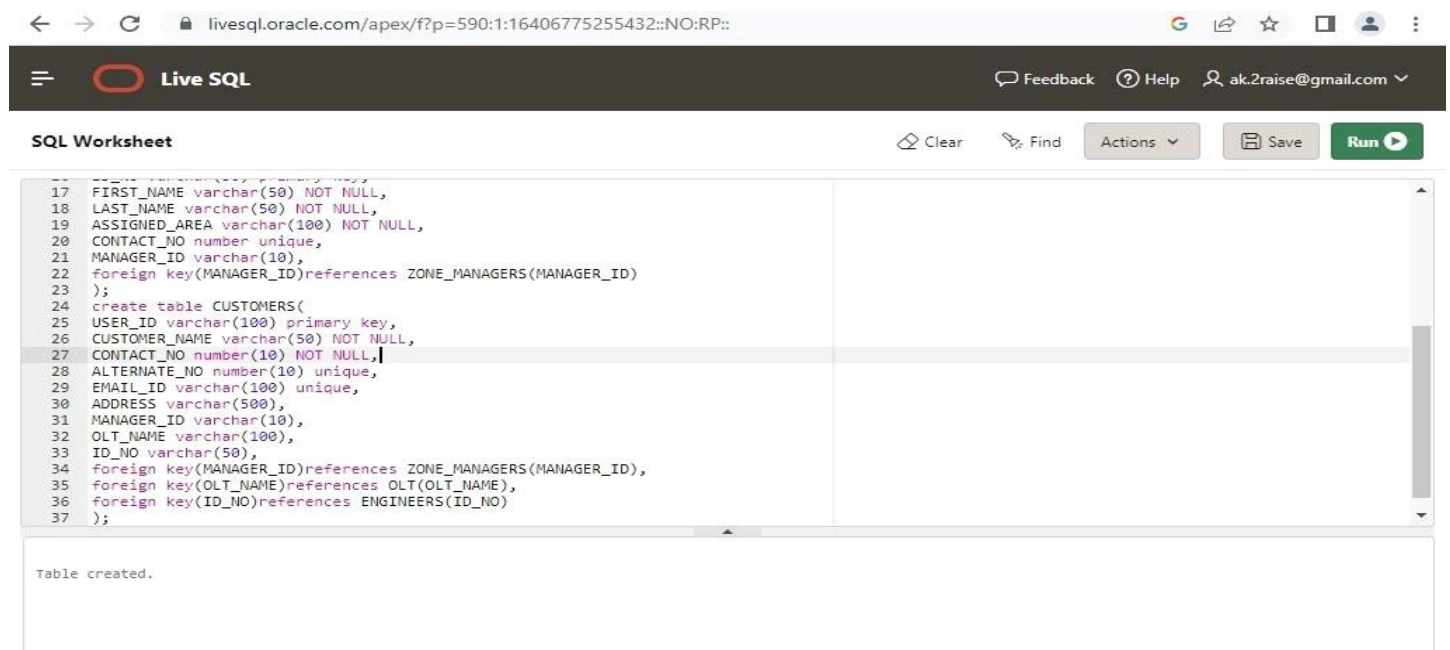
The screenshot shows a web browser window with the URL `livesql.oracle.com/apex/f?p=590:1:16406775255432::NO:RP::`. The page title is "Live SQL". Below the header, there is a "SQL Worksheet" section with a text area containing SQL code. The code defines two tables: "OLT" and "ENGINEERS". The "ENGINEERS" table has columns: "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)), and a foreign key constraint "foreign key(MANAGER_ID) references ZONE MANAGERS(MANAGER_ID)". Below the code editor, a message "Table created." is displayed.

```
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 the Live SQL interface with the following SQL script executed:

```
--  
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 );
```

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);

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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('MWN1','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('MVW2','OLT-DB24','VR(W)','Z4');
50 insert into OLT values('MVW1','OLT-DB53','VR(W)','Z4');
51 insert into OLT values('MWN2','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
MWN1	OLT-DB22	NSP(W)	Z2
MVE2	OLT-DB31	VR(E)	Z3
MNE2	OLT-DB61	NSP(E)	Z1
MVW2	OLT-DB24	VR(W)	Z4
MVW1	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',0111222333,'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')
```

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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

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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##Vertak mainrd','Z3','MVE2','E04');
92 insert into CUSTOMERS values('C025','Rohit Mudras',9998882229,9998884444,'rohit@gmail.com','##Vertak','Z3','MVE2','E04');
93 insert into CUSTOMERS values('C026','Saurandeep',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 ---1)Describing ZONE MANAGERS table Structure .
98
99 desc ZONE MANAGERS;|
100
101
102
103
104
```

The result shows the table structure for ZONE MANAGERS:

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 result shows 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. The top navigation bar includes a hamburger menu, the 'Live SQL' logo, and links for Feedback, Help, and a user profile (ak.2raise@gmail.com). Below the navigation bar is a toolbar with 'Clear', 'Find', 'Actions', 'Save', and a 'Run' button. The main area is a 'SQL Worksheet' with a text editor containing the following SQL query:

```
118  
119  
120 ---3) Fetching Zonemanagers name of assigned_zone Nallasopara-East  
121  
122 select MANAGER_NAME from ZONE_MANAGERS where ASSIGNED_AREA='Nallasopara_East';  
123  
124  
125  
126  
127
```

Below the editor, a table with the header 'MANAGER_NAME' is displayed, containing one row with the value 'Swati'. A 'Download CSV' link is located below the table.

Q4. Rename column OLT_NAME temporary?

→ Select OLT_NAME as OLT_No_id from OLT;

The screenshot shows the Live SQL interface with a sidebar on the left containing navigation links: Home, SQL Worksheet (selected), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The top navigation bar and toolbar are identical to the previous screenshot. The 'SQL Worksheet' text editor contains the following SQL query:

```
98  
99  
100  
101  
102 ---4) Renaming column OLT_NAME and Updating some data in column OLT_MACID of OLT table .  
103 select OLT_NAME as "OLT_No_id" from OLT;  
104  
105
```

Below the editor, a table with the header 'OLT_No_id' is displayed, containing 8 rows of data. The data values are: MVE1, MVE2, MVE1, MVE2, MVE1, MVE2, MVE1, MVE2. A 'Download CSV' link is located below the table, followed by the text '8 rows selected.'.

At the bottom of the interface, there is a footer with copyright information: '© 2022 Oracle - Live SQL 22.3.1, running Oracle Database 19c Enterprise Edition - 19.14.0.0.0 - Database Documentation - Ask Tom - Dev Gym'. It also includes a note 'Built with using Oracle APEX - Privacy - Terms of Use' and an 'Activate Windows' watermark.

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. Below the message is 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
MW12	OLT-DB24	VR(W)	Z4
MW11	OLT-DB53	VR(W)	Z4
MW12	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 11 rows selected. Below the message is a table with the following data:

ID_NO	OLT_NAME
E01	MW12
E02	MW11
E03	MW12
E04	MVE2
E05	MVE1
E06	MVE2
E07	MW12
E09	MW11
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 the following SQL query entered in the worksheet:

```
--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 the following SQL query entered in the worksheet:

```
--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	-	mayur@gmail.com	roomno 303, #Vartak	Z3	MVE2	E04
C007	Vekatesh	6665553231	7896585645	-	Roomno222, #Dmart Road	Z3	MVE2	E06
C010	Samir-khan	8787989894	8788558745	samir@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 Mudras	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 the following SQL query in the worksheet:

```
135  
136 ---9)Fetching Customer details by following conditions:-  
137 -->a)customer name-starts with "A"  
138 select * from CUSTOMERS where CUSTOMER_NAME like 'A%';  
139  
140  
141  
142
```

The results table displays the following data:

USER_ID	CUSTOMER_NAME	CONTACT_NO	ALTERNATE_NO	EMAIL_ID	ADDRESS	MANAGER_ID	OLT_NAME	ID_NO
C001	Ajithkumar	9146565788	9145567233	ajith###@gmail.com	Room no A/402,###Rehmatnagar	Z1	MNG1	E10
C011	Aayush	8653114589	8896663332	ayy112###@gmail.com	Room no ,889####,Pragatinagar	Z2	MNG1	E09
C015	Arvind	8223264589	9996123332	arv###@gmail.com	Room no ,007####,Pragatinagar	Z2	MNG1	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 the following SQL query in the worksheet:

```
139  
140  
141  
142  
143 -->b)Customer Second last word name-ends with "r"  
144 select * from CUSTOMERS where CUSTOMER_NAME like '%r_';  
145  
146
```

The results table displays the following data:

USER_ID	CUSTOMER_NAME	CONTACT_NO	ALTERNATE_NO	EMAIL_ID	ADDRESS	MANAGER_ID	OLT_NAME	ID_NO
C017	Charu	7722668956	8978798978	charu@gmail.com	#near Ram Nagar	Z4	MNG2	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 text editor with the following SQL query:

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

Below the 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	MVA2	E01

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

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 the same sidebar as the previous image. The main area is titled 'SQL Worksheet' and contains a text 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 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	9146566000	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 a watermark that says 'Activate Windows'.

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 with a sidebar on the left containing navigation options: Home, SQL Worksheet (selected), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains a SQL 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 query has been executed, and the results are displayed in a table with one column, 'TOTAL_CUSTOMERS', and one row with the value '4'. Below the table is a 'Download CSV' link. The footer of the interface shows the copyright information: '© 2022 Oracle - Live SQL 22.3.1, running Oracle Database 19c Enterprise Edition - 19.14.0.0.0 - Database Documentation - Ask Tom - Dev Gym'.

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 with the same sidebar as the previous screenshot. The main area is titled 'SQL Worksheet' and contains a SQL 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 query has been executed, and the results are displayed in a table with one column, 'USER_ID', and five rows with the values 'C002', 'C003', 'C009', 'C011', and 'C015'. Below the table is a 'Download CSV' link and the text '5 rows selected.'. The footer of the interface shows the copyright information: '© 2022 Oracle - Live SQL 22.3.1, running Oracle Database 19c Enterprise Edition - 19.14.0.0.0 - Database Documentation - Ask Tom - Dev Gym'.

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

Live SQL

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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 equivalent join.
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 bottom status bar with copyright information.

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:

C010	Samir Khan	8787969894	8788558745	samir@gmail.com	111,##Sunshine	23	HVE1	E05
C011	Ayush	9653114589	8896663332	aay112##@gmail.com	Room no ,809###,Pragatinagar	22	HVE1	E09
C014	Shenapawar	9989768526	8882213335	Shenap@gmail.com	Roomno 414##Sunshine	23	HVE1	E05
C015	Arvind	8223264589	9996123332	arv##@gmail.com	Room no ,007###,Pragatinagar	22	HVE1	E09
C016	shrutika	9665487896	9228855465	shr@gmail.com	Room002##phase1	24	HVE1	E02
C017	Charu	7722668956	8978798978	charu@gmail.com	##near Ram Nagar	24	HVE2	E01
C019	Bendre Nisha	8894848335	8184848335	bendre@gmail.com	Roomno303##Ram Nagar	24	HVE2	E01
C021	Kala	8529637415	3692581478	kala@gmail.com	##near bakery Sunshine rd	23	HVE1	E05
C022	Hitesh	9146565900	9123567233	hit23###@gmail.com	Room no d/301,##Rehmatnagar	21	HVE1	E10
C025	Rohit Mudras	9998882229	9998884444	rohit@gmail.com	##vartak	23	HVE2	E04
C026	Saurandeep	8124648335	9126368526	saura@gmail.com	Room no 404##Ram Nagar	24	HVE2	E01

The interface includes a top navigation bar with "Live SQL" and a bottom status bar with copyright information.

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	aj1####@gmail.com	Room no A/402,###Rehmatnagar	Z1	MNE1	E10
C005	Santhosh	9141562238	9145560003	san1####@gmail.com	Room no 302,###OSTHIAL	Z1	MNE2	E12
C022	Hitesh	9146565000	9123567233	hit23####@gmail.com	Room no d/301,###Rehmatnagar	Z1	MNE1	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 a menu icon, the 'Live SQL' logo, and links for Feedback, Help, and a user profile (ak.2raise@gmail.com). Below the bar, the 'SQL Worksheet' section contains a code editor with line numbers 152 to 161. The code in the editor is as follows:

```
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 code 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 a menu icon, the 'Live SQL' logo, and links for Feedback, Help, and a user profile (ak.2raise@gmail.com). Below the bar, the 'SQL Worksheet' section contains a code editor with line numbers 160 to 169. The code in the editor is as follows:

```
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 code editor, the output area displays the message 'Table dropped.'