

## Lab - Working with Database in Python Programming

1. Create the following tables:

Table name: **CLIENT\_MASTER**

Column Name	Data Type	Size	Attributes
CLIENTNO	Varchar	6	Primary Key / First letter must start with 'C'
NAME	Varchar	20	Not Null
CITY	Varchar	15	
PINCODE	Number	8	
STATE	Varchar	15	
BALDUE	Number	10,2	



## Navigator:

## SCHEMAS

- Filter objects
- books
- cdac\_python\_programming\_ex\_11
- companydb
- elex\_bank
- ig\_clone
- introduction to sql
- job\_data
- metric\_spike
- project\_0412
- projects

Administration Schemas

## Information

No object selected

## SQL File 4 cdac\_python\_programming\_ex\_11



Name: cdac\_python\_programming\_ex\_11

Rename References

Specify the name of the schema here. You can use any combination of ANSI letters, numbers and the underscore character for names that don't

Refactor model, changing all references found in view, triggers, stored procedures and functions from the old schema name to the new one.

Charset/Collation: Default Charset Default Collation

The character set and its collation selected here will be used when no other charset/collation is set for a database object (it uses the DEFAULT value

## SQLAdditions

Jump to

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Schema

Apply

Revert

Context Help Snippets

Output

Action Output

#	Time	Action
---	------	--------

1	16:48:03	Apply changes to cdac_python_programming_ex_11
---	----------	--

Message

Changes applied

Duration / Fetch

Object Info Session

Added new script editor



Type here to search



Desktop ? ^ ⏺

16:48  
22-03-2025

## Lab - Working with Database in Python Programming

### 1. Create the following tables:

Table name: **CLIENT\_MASTER**

Column Name	Data Type	Size	Attributes
CLIENTNO	Varchar	6	Primary Key / First letter must start with 'C'
NAME	Varchar	20	Not Null
CITY	Varchar	15	
PINCODE	Number	8	
STATE	Varchar	15	
BALDUE	Number	10,2	

```
CREATE TABLE CLIENT_MASTER (
    CLIENTNO VARCHAR(6) NOT NULL PRIMARY KEY,
    NAME VARCHAR(20) NOT NULL,
    CITY VARCHAR(15),
    PINCODE NUMERIC(8),
    STATE VARCHAR(15),
    BALDUE NUMERIC(10,2),
    CONSTRAINT chk_clientno CHECK (CLIENTNO LIKE 'C%')
);
```



Navigator cdac\_ex\_11\* cdac\_python\_programming\_ex\_...

SQLAdditions: Jump to

## SCHEMAS

- Filter objects
- books
- cdac\_python\_prog

  - Tables
  - Views
  - Stored Procedures
  - Functions

- companydb
- elex\_bank
- ig\_clone
- introduction to sql a

Administration Schemas

## Information

Schema:  
cdac\_python\_program

```
1 • USE cdac_python_programming_ex_11;
2
3 • CREATE TABLE CLIENT_MASTER (
4     CLIENTNO VARCHAR(6) NOT NULL PRIMARY KEY,
5     NAME VARCHAR(20) NOT NULL,
6     CITY VARCHAR(15),
7     PINCODE NUMERIC(8),
8     STATE VARCHAR(15),
9     BALDUE NUMERIC(10,2),
10    CONSTRAINT chk_clientno CHECK (CLIENTNO LIKE 'C%')
11 );
12
13
```

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

&lt; Output &gt;

Context Help Snippets

## Action Output

#	Time	Action	Message	Duration / Fetch
2	16:53:45	CREATE TABLE CLIENT_MASTER ( CLIENTNO VARCHAR(6) NOT NULL PRIMARY KEY, NAME VARCHAR...	0 row(s) affected	2.063 sec
3	16:54:56	USE cdac_python_programming_ex_11	0 row(s) affected	0.000 sec
4	16:55:00	CREATE TABLE CLIENT_MASTER ( CLIENTNO VARCHAR(6) NOT NULL PRIMARY KEY, NAME VARCHAR...	0 row(s) affected	0.703 sec

SQL script saved to 'C:\Users\Advait\Desktop\CDAC\ASSIGNMENTS -- SOLUTIONS\MODULE -- PYTHON PROGRAMMING\LAB EXERCISE 11\cdac\_ex\_11.sql'



Type here to search





- Filter objects
- books
- cdac\_python\_programming\_ex\_11\*
- companydb
- elex\_bank
- ig\_clone
- introduction to sql a

```
1 • USE cdac_python_programming_ex_11;
2
3 • CREATE TABLE CLIENT_MASTER (
4     CLIENTNO VARCHAR(6) NOT NULL PRIMARY KEY,
5     NAME VARCHAR(20) NOT NULL,
6     CITY VARCHAR(15),
7     PINCODE NUMERIC(8),
8     STATE VARCHAR(15),
9     BALDUE NUMERIC(10,2),
10    CONSTRAINT chk_clientno CHECK (CLIENTNO LIKE 'C%')
11 );
12
13 • SELECT * FROM CLIENT_MASTER;
14
```

Result Grid | Filter Rows: [ ] | Edit: [ ] | Export/Import: [ ] | Wrap Cell Content: [ ]

	CLIENTNO	NAME	CITY	PINCODE	STATE	BALDUE
*	NULL	NULL	NULL	NULL	NULL	NULL

## Action Output

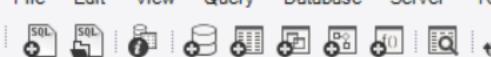
#	Time	Action	Message	Duration / Fetch
3	16:54:56	USE cdac_python_programming_ex_11	0 row(s) affected	0.000 sec
4	16:55:00	CREATE TABLE CLIENT_MASTER ( CLIENTNO VARCHAR(6) NOT NULL PRIMARY KEY, NAME VARCHAR(20) NOT NULL, CITY VARCHAR(15), PINCODE NUMERIC(8), STATE VARCHAR(15), BALDUE NUMERIC(10,2), CONSTRAINT chk_clientno CHECK (CLIENTNO LIKE 'C%') )	0 row(s) affected	0.703 sec
5	16:55:44	SELECT * FROM CLIENT_MASTER LIMIT 0, 50000	0 row(s) returned	0.078 sec / 0.000 sec



**Table\_Name: PRODUCT\_MASTER**

Column Name	Data Type	Size	Attributes
PRODUCTNO	Varchar	6	Primary Key / First letter must start with 'P'
DESCRIPTION	Varchar	15	Not Null
PROFITPERCENT	Number	4,2	Not Null
UNITMEASURE	Varchar	10	Not Null
QTYONHAND	Number	8	Not Null
REORDERLVL	Number	8	Not Null
SELLPRICE	Number	8,2	Not Null, cannot be 0
COSTPRICE	Number	8,2	Not Null, cannot be 0

```
CREATE TABLE PRODUCT_MASTER (
    PRODUCTNO VARCHAR(6) NOT NULL PRIMARY KEY,
    DESCRIPTION VARCHAR(15) NOT NULL,
    PROFITPERCENT NUMERIC(4,2) NOT NULL,
    UNITMEASURE VARCHAR(10) NOT NULL,
    QTYONHAND NUMERIC(8) NOT NULL,
    REORDERLVL NUMERIC(8) NOT NULL,
    SELLPRICE NUMERIC(8,2) NOT NULL CHECK (SELLPRICE > 0),
    COSTPRICE NUMERIC(8,2) NOT NULL CHECK (COSTPRICE > 0),
    CONSTRAINT chk_productno CHECK (PRODUCTNO LIKE 'P%')
);
```



## Navigator

cdac\_ex\_11 x cdac\_python\_programming\_ex...

## SCHEMAS

- Filter objects
- books
- cdac\_python\_programming
- Tables
- Views
- Stored Procedure
- Functions
- companydb
- elex\_bank
- ig\_clone
- introduction to sql a

[Administration](#) [Schemas](#)

## Information

Schema:  
cdac\_python\_programming

```
5     NAME VARCHAR(20) NOT NULL,
6     CITY VARCHAR(15),
7     PINCODE NUMERIC(8),
8     STATE VARCHAR(15),
9     BALDUE NUMERIC(10,2),
10    CONSTRAINT chk_clientno CHECK (CLIENTNO LIKE 'C%')
11  );
12
13 •   SELECT * FROM CLIENT_MASTER;
14
15 •   CREATE TABLE PRODUCT_MASTER (
16     PRODUCTNO VARCHAR(6) NOT NULL PRIMARY KEY,
17     DESCRIPTION VARCHAR(15) NOT NULL,
18     PROFITPERCENT NUMERIC(4,2) NOT NULL,
19     UNITMEASURE VARCHAR(10) NOT NULL,
20     QTYONHAND NUMERIC(8) NOT NULL,
21     REORDERLVL NUMERIC(8) NOT NULL,
22     SELLPRICE NUMERIC(8,2) NOT NULL CHECK (SELLPRICE > 0),
23     COSTPRICE NUMERIC(8,2) NOT NULL CHECK (COSTPRICE > 0),
24     CONSTRAINT chk_productno CHECK (PRODUCTNO LIKE 'P%')
25  );
26
```

## SQLAdditions

[|](#) [|](#) [?](#) [?](#) [Jump to](#)

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

[Context Help](#) [Snippets](#)

## Output

## Action Output

#	Time	Action	Message	Duration / Fetch
4	16:55:00	CREATE TABLE CLIENT_MASTER ( CLIENTNO VARCHAR(6) NOT NULL PRIMARY KEY, NAME VARCHAR...	0 row(s) affected	0.703 sec
5	16:55:44	SELECT * FROM CLIENT_MASTER LIMIT 0, 50000	0 row(s) returned	0.078 sec / 0.000 sec
6	17:01:01	CREATE TABLE PRODUCT_MASTER ( PRODUCTNO VARCHAR(6) NOT NULL PRIMARY KEY, DESCRIPT...	0 row(s) affected	0.360 sec

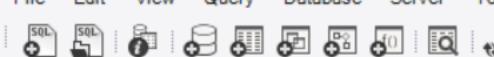
[Object Info](#) [Session](#)

Query Completed



Type here to search

17:01  
22-03-2025



Navigator cdac\_ex\_11 cdac\_python\_programming\_ex...

SCHEMAS Filter objects books cdac\_python\_programming Tables Views Stored Procedure Functions companydb elex\_bank ig\_clone introduction to sql a Administration Schemas

Information Schema: cdac\_python\_programming

```
13 •   SELECT * FROM CLIENT_MASTER;
14
15 •   CREATE TABLE PRODUCT_MASTER (
16       PRODUCTNO VARCHAR(6) NOT NULL PRIMARY KEY,
17       DESCRIPTION VARCHAR(15) NOT NULL,
18       PROFITPERCENT NUMERIC(4,2) NOT NULL,
19       UNITMEASURE VARCHAR(10) NOT NULL,
20       QTYONHAND NUMERIC(8) NOT NULL,
21       REORDERLVL NUMERIC(8) NOT NULL,
22       SELLPRICE NUMERIC(8,2) NOT NULL CHECK (SELLPRICE > 0),
23       COSTPRICE NUMERIC(8,2) NOT NULL CHECK (COSTPRICE > 0),
24       CONSTRAINT chk_productno CHECK (PRODUCTNO LIKE 'P%')
25   );
26
27 •   SELECT * FROM PRODUCT_MASTER;
```

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:

PRODUCTNO	DESCRIPTION	PROFITPERCENT	UNITMEASURE	QTYONHAND	REORDERLVL	SELLPRICE	COSTPRICE
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Context Help Snippets

PRODUCT MASTER 2 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
5	16:55:44	SELECT * FROM CLIENT_MASTER LIMIT 0, 50000	0 row(s) returned	0.078 sec / 0.000 sec
6	17:01:01	CREATE TABLE PRODUCT_MASTER ( PRODUCTNO VARCHAR(6) NOT NULL PRIMARY KEY, DESCRIPTION VARCHAR(15) NOT NULL, PROFITPERCENT NUMERIC(4,2) NOT NULL, UNITMEASURE VARCHAR(10) NOT NULL, QTYONHAND NUMERIC(8) NOT NULL, REORDERLVL NUMERIC(8) NOT NULL, SELLPRICE NUMERIC(8,2) NOT NULL CHECK (SELLPRICE > 0), COSTPRICE NUMERIC(8,2) NOT NULL CHECK (COSTPRICE > 0), CONSTRAINT chk_productno CHECK (PRODUCTNO LIKE 'P%') );	0 row(s) affected	0.360 sec
7	17:01:45	SELECT * FROM PRODUCT_MASTER LIMIT 0, 50000	0 row(s) returned	0.015 sec / 0.000 sec

Object Info Session

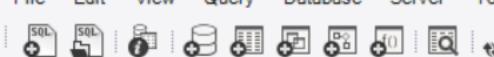


Column Name	Data Type	Size	Attributes
SALESMANNO	Varchar	6	Primary Key / First letter must start with 'S'
SALESMANNAME	Varchar	20	Not Null
ADDRESS1	Varchar	30	Not Null
ADDRESS2	Varchar	30	
CITY	Varchar	20	
PINCODE	Number	8	
STATE	Varchar	20	
SALAMT	Number	8,2	Not Null, cannot be 0
TGTTOTGET	Number	6,2	Not Null, cannot be 0
YTDSALES	Number	6,2	Not Null
REMARKS	Varchar	60	

```

CREATE TABLE SALESMAN_MASTER (
    SALESMANNO VARCHAR(6) NOT NULL PRIMARY KEY,
    SALESMANNAME VARCHAR(20) NOT NULL,
    ADDRESS1 VARCHAR(30) NOT NULL,
    ADDRESS2 VARCHAR(30),
    CITY VARCHAR(20),
    PINCODE NUMERIC(8),
    STATE VARCHAR(20),
    SALAMT NUMERIC(8,2) NOT NULL CHECK (SALAMT > 0),
    TGTTOTGET NUMERIC(6,2) NOT NULL CHECK (TGTTOTGET > 0),
    YTDSALES NUMERIC(6,2) NOT NULL,
    REMARKS VARCHAR(60),
    CONSTRAINT chk_salesmanno CHECK (SALESMANNO LIKE 'S%')
);

```



## Navigator

## SCHEMAS

- Filter objects
- books
- cdac\_python\_program
- Tables
- Views
- Stored Procedures
- Functions
- companydb
- elex\_bank
- ig\_clone
- introduction to sql a

< >

Administration Schemas

Information

Schema:  
cdac\_python\_program

Object Info Session

## cdac\_ex\_11 x cdac\_python\_programming\_ex...

```
24     CONSTRAINT chk_productno CHECK (PRODUCTNO LIKE 'P%')
25 );
26
27 •   SELECT * FROM PRODUCT_MASTER;
28
29
30 •   CREATE TABLE SALESMAN_MASTER (
31     SALESMANNO VARCHAR(6) NOT NULL PRIMARY KEY,
32     SALESMANNAME VARCHAR(20) NOT NULL,
33     ADDRESS1 VARCHAR(30) NOT NULL,
34     ADDRESS2 VARCHAR(30),
35     CITY VARCHAR(20),
36     PINCODE NUMERIC(8),
37     STATE VARCHAR(20),
38     SALAMT NUMERIC(8,2) NOT NULL CHECK (SALAMT > 0),
39     TGTTOTGET NUMERIC(6,2) NOT NULL CHECK (TGTTOTGET > 0),
40     YTDSALES NUMERIC(6,2) NOT NULL,
41     REMARKS VARCHAR(60),
42     CONSTRAINT chk_salesmanno CHECK (SALESMANNO LIKE 'S%')
43 );
44
45
```

## SQLAdditions



Jump to

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

## Output

## Action Output

#	Time	Action	Message	Duration / Fetch
6	17:01:01	CREATE TABLE PRODUCT_MASTER ( PRODUCTNO VARCHAR(6) NOT NULL PRIMARY KEY, DESCRIP...	0 row(s) affected	0.360 sec
7	17:01:45	SELECT * FROM PRODUCT_MASTER LIMIT 0, 50000	0 row(s) returned	0.015 sec / 0.000 sec
8	17:04:59	CREATE TABLE SALESMAN_MASTER ( SALESMANNO VARCHAR(6) NOT NULL PRIMARY KEY, SALES...	0 row(s) affected	0.328 sec

Query Completed

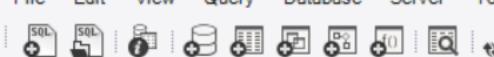


Type here to search



Desktop

17:05  
22-03-2025



## Navigator

cdac\_ex\_11 x cdac\_python\_programming\_ex...

## SCHEMAS

- ▶ books
- ▼ cdac\_python\_programming
  - Tables
  - Views
  - Stored Procedures
  - Functions
- ▶ companydb
- ▶ elex\_bank
- ▶ ig\_clone
- ▶ introduction to sql a

&lt; Administration Schemas &gt;

## Information

Schema:  
cdac\_python\_programming

```

31     SALESMANNO VARCHAR(6) NOT NULL PRIMARY KEY,
32     SALESMANNAME VARCHAR(20) NOT NULL,
33     ADDRESS1 VARCHAR(30) NOT NULL,
34     ADDRESS2 VARCHAR(30),
35     CITY VARCHAR(20),
36     PINCODE NUMERIC(8),
37     STATE VARCHAR(20),
38     SALAMT NUMERIC(8,2) NOT NULL CHECK (SALAMT > 0),
39     TGTTOTGET NUMERIC(6,2) NOT NULL CHECK (TGTTOTGET > 0),
40     YTDSALES NUMERIC(6,2) NOT NULL,
41     REMARKS VARCHAR(60),
42     CONSTRAINT chk_salesmanno CHECK (SALESMANNO LIKE 'S%')
43 ;
44
45 •   SELECT * FROM SALESMAN_MASTER;

```

	SALESMANNO	SALESMANNAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	SALAMT	TGTTOTGET	YTDSALES	REMARKS
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

## SQLAdditions



Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

SALESMAN\_MASTER 3 x

Apply

Revert

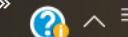
Context Help Snippets

## Output

## Action Output

#	Time	Action	Message	Duration / Fetch
7	17:01:45	SELECT * FROM PRODUCT_MASTER LIMIT 0, 50000	0 row(s) returned	0.015 sec / 0.000 sec
8	17:04:59	CREATE TABLE SALESMAN_MASTER ( SALESMANNO VARCHAR(6) NOT NULL PRIMARY KEY, SALES...	0 row(s) affected	0.328 sec
9	17:06:15	SELECT * FROM SALESMAN_MASTER LIMIT 0, 50000	0 row(s) returned	0.016 sec / 0.000 sec

&lt; Object Info Session &gt;



**Table\_Name: SALES\_ORDER**

Column Name	Data Type	Size	Attributes
ORDERNO	Varchar	6	Primary Key / First letter must start with 'O'
CLIENTNO	Varchar	6	Foreign Key references ClientNo of Client_Master table
ORDERDATE	Date		Not Null
DELYADDR	Varchar	25	
SALESMANNO	Varchar	6	Foreign Key references SalesmanNo of Salesman_Master table
DELYTYPE			

	Char	1	
BILLYN	Char	1	
DELYDATE	Date		
ORDERSTATUS	Varchar	10	

```
CREATE TABLE SALES_ORDER (
    ORDERNO VARCHAR(6) PRIMARY KEY CHECK (ORDERNO LIKE 'O%'),
    CLIENTNO VARCHAR(6),
    ORDERDATE DATE NOT NULL,
    DELYADDR VARCHAR(25),
    SALESMANNO VARCHAR(6),
    DELYTYPE CHAR(1),
    BILLYN CHAR(1),
    DELYDATE DATE,
    ORDERSTATUS VARCHAR(16),
    FOREIGN KEY (CLIENTNO) REFERENCES CLIENT_MASTER(CLIENTNO),
    FOREIGN KEY (SALESMANNO) REFERENCES
    SALESMAN_MASTER(SALESMANNO)
);
```



Navigator cdac\_ex\_11 x cdac\_python\_programming\_ex\_...

SQLAdditions...

&lt; &gt; | ? Jump to

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

## SCHEMAS

Filter objects

- ▶ books
- cdac\_python\_programming\_ex\_11 (selected)
- ▶ Tables
- ▶ Views
- ▶ Stored Procedures
- ▶ Functions
- ▶ companydb
- ▶ elex\_bank
- ▶ ig\_clone
- ▶ introduction to sql a

&lt; &gt;

Administration Schemas

## Information

Schema:  
cdac\_python\_programming\_ex\_11

```

46
47 • CREATE TABLE SALES_ORDER (
48     ORDERNO VARCHAR(6) PRIMARY KEY CHECK (ORDERNO LIKE '0%'),
49     CLIENTNO VARCHAR(6),
50     ORDERDATE DATE NOT NULL,
51     DELYADDR VARCHAR(25),
52     SALESMANNO VARCHAR(6),
53     DELYTYPE CHAR(1),
54     BILLYN CHAR(1),
55     DELYDATE DATE,
56     ORDERSTATUS VARCHAR(18),
57     FOREIGN KEY (CLIENTNO) REFERENCES CLIENT_MASTER(CLIENTNO),
58     FOREIGN KEY (SALESMANNO) REFERENCES SALESMAN_MASTER(SALESMANNO)
59 );
60 • SELECT * FROM SALES_ORDER;

```

	ORDERNO	CLIENTNO	ORDERDATE	DELYADDR	SALESMANNO	DELYTYPE	BILLYN	DELYDATE	ORDERSTATUS
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL



Result Grid

SALES\_ORDER 5 x

Apply

Revert

Context Help Snippets

## Output

## Action Output

#	Time	Action	Message	Duration / Fetch
13	17:11:47	DROP TABLE SALES_ORDER	0 row(s) affected	0.563 sec
14	17:11:57	CREATE TABLE SALES_ORDER ( ORDERNO VARCHAR(6) PRIMARY KEY CHECK (ORDERNO LIKE '0%'), ... )	0 row(s) affected	1.469 sec
15	17:12:04	SELECT * FROM SALES_ORDER LIMIT 0, 50000	0 row(s) returned	0.000 sec / 0.000 sec

SQL script saved to 'C:\Users\Advait\Desktop\CDAC\ASSIGNMENTS -- SOLUTIONS\MODULE -- PYTHON PROGRAMMING\LAB EXERCISE 11\cdac\_ex\_11.sql'



Type here to search



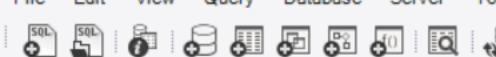
Desktop &gt; ? ^ ⌂

17:12  
22-03-2025

**Table\_Name: SALES\_ORDER\_DETAILS**

Column Name	Data Type	Size	Attributes
ORDERNO	Varchar	6	Foreign Key references OrderNo of Sales_Order table
PRODUCTNO	Varchar	6	Foreign Key references ProductNo of Product_Master table
QTYORDERED	Number	8	
QTYDISP	Number	8	
PRODUCTRATE	Number	10,2	

```
CREATE TABLE SALES_ORDER_DETAILS(
    ORDERNO VARCHAR(6), FOREIGN
    KEY (ORDERNO) REFERENCES
    SALES_ORDER(ORDERNO), PRODUCTNO
    VARCHAR(6), FOREIGN KEY (PRODUCTNO)
    REFERENCES
    PRODUCT_MASTER(PRODUCTNO),
    QTYORDERED NUMERIC(8), QTYDISP
    NUMERIC(8), PRODUCTRATE
    NUMERIC(10,2));
```



Navigator cdac\_ex\_11\* x cdac\_python\_programming\_ex\_...

## SCHEMAS

- Filter objects
- books
- cdac\_python\_programming\_ex\_\*
- Tables
- Views
- Stored Procedure
- Functions
- companydb
- elex\_bank
- ig\_clone
- introduction to sql a

Administration Schemas

## Information

Schema:  
cdac\_python\_programming\_ex\_\*

```
56     ORDERSTATUS VARCHAR(18),  
57     Execute the statement under the keyboard cursor T_MASTER(CLIENTNO),  
58     FOREIGN KEY (SALESMANNO) REFERENCES SALESMAN_MASTER(SALESMANNO)  
59   );  
60 •   SELECT * FROM SALES_ORDER;  
61  
62 •   CREATE TABLE SALES_ORDER_DETAILS(  
63     ORDERNO VARCHAR(6), FOREIGN KEY (ORDERNO) REFERENCES SALES_ORDER(ORDERNO),  
64     PRODUCTNO VARCHAR(6), FOREIGN KEY (PRODUCTNO) REFERENCES PRODUCT_MASTER(PRODUCTNO),  
65     QTYORDERED NUMERIC(8),  
66     QTYDISP NUMERIC(8),  
67     PRODUCTRATE NUMERIC(10,2)  
68   );  
69  
70 •   SELECT * FROM SALES_ORDER_DETAILS;
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:	
ORDERNO	PRODUCTNO	QTYORDERED	QTYDISP	PRODUCTRATE

Result  
Grid

SALES\_ORDER\_DETAILS 6 x

Read Only

Context Help Snippets

## Output

## Action Output

#	Time	Action	Message	Duration / Fetch
15	17:12:04	SELECT * FROM SALES_ORDER LIMIT 0, 50000	0 row(s) returned	0.000 sec / 0.000 sec
16	17:19:55	CREATE TABLE SALES_ORDER_DETAILS(ORDERNO VARCHAR(6), FOREIGN KEY (ORDERNO) REFEREN...	0 row(s) affected	0.469 sec
17	17:20:57	SELECT * FROM SALES_ORDER_DETAILS LIMIT 0, 50000	0 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed



Type here to search



Desktop »



17:20

22-03-2025



## 2. Insert the following data into their respective tables:

Data for CLIENT\_MASTER table:

CLIENT	NAME	CITY	PINCODE	STATE	BALDUE
C00001	Ivan Bayross	Mumbai	400054	Maharashtra	15000
C00003	Chhaya Bankar	Mumbai	400057	Maharashtra	5000
C00004	Ashwini Joshi	Bangalore	560001	Karnataka	0
C00005	Hansel Colaco	Mumbai	400060	Maharashtra	2000
C00006	Deepak Sharma	Mangalore	560050	Karnataka	0

```
INSERT INTO CLIENT_MASTER VALUES ('C00001', 'Ivan Bayross', 'Mumbai', 400054, 'Maharashtra', 15000),  
(C00003', 'Chhaya Bankar', 'Mumbai', 400057, 'Maharashtra', 5000), ('C00004', 'Ashwini Joshi', 'Bangalore', 560001,  
'Karnataka', 0), ('C00005', 'Hansel Colaco', 'Mumbai', 400060, 'Maharashtra', 2000), ('C00006', 'Deepak Sharma',  
'Mangalore', 560050, 'Karnataka', 0);
```

File Edit View Query Database Server Tools Scripting Help



Navigator cdac\_ex\_11 x cdac\_python\_programming\_ex\_...

### SCHEMAS

- books
- cdac\_python\_programming

  - Tables
  - Views
  - Stored Procedures
  - Functions

- companydb
- elex\_bank
- ig\_clone
- introduction to sql a

Administration Schemas

### Information

Schema:  
cdac\_python\_programming

```

67     PRODUCTRATE NUMERIC(10,2)
68 );
69
70 •   SELECT * FROM SALES_ORDER_DETAILS;
71
72 •   INSERT INTO CLIENT_MASTER VALUES(
73     'C00001',
74     'Ivan Bayross',
75     'Mumbai',
76     400054,
77     'Maharashtra',
78     15000
79 );
80
81 •   SELECT * FROM CLIENT_MASTER;
```

	CLIENTNO	NAME	CITY	PINCODE	STATE	BALDUE
▶	C00001	Ivan Bayross	Mumbai	400054	Maharashtra	15000.00
*	NULL	NULL	NULL	NULL	NULL	NULL

SQLAdditions:

◀ ▶ | ? Jump to

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.



CLIENT\_MASTER 7 x

Apply

Context Help Snippets

### Output

#### Action Output

#	Time	Action	Message	Duration / Fetch
18	17:24:01	INSERT INTO CLIENT_MASTER VALUES('C00001', 'Ivan Bayross', 'Mumbai', 400054, 'Maharashtra', ...)	Error Code: 1136. Column count doesn't match value count at row 1	0.046 sec
19	17:26:28	INSERT INTO CLIENT_MASTER VALUES('C00001', 'Ivan Bayross', 'Mumbai', 400054, 'Maharashtra', ...)	1 row(s) affected	0.266 sec
20	17:26:46	SELECT * FROM CLIENT_MASTER LIMIT 0, 50000	1 row(s) returned	0.000 sec / 0.000 sec

SQL script saved to 'C:\Users\Advait\Desktop\CDAC\ASSIGNMENTS -- SOLUTIONS\MODULE -- PYTHON PROGRAMMING\LAB EXERCISE 11\cdac\_ex\_11.sql'



Type here to search

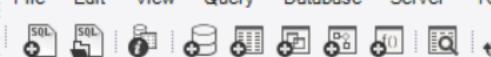


Desktop



17:26  
22-03-2025





## Navigator

## SCHEMAS

- ▶ books
- ▼ cdac\_python\_program
  - Tables
  - Views
  - Stored Procedure
  - Functions
- ▶ companydb
- ▶ elex\_bank
- ▶ ig\_clone
- ▶ introduction to sql a

< >

Administration Schemas

## Information

Schema:  
cdac\_python\_program

cdac\_ex\_11 x cdac\_python\_program\_ex\_...



Limit to 50000 rows



```
71
72 •   INSERT INTO CLIENT_MASTER VALUES(
73     'C00001',
74     'Ivan Bayross',
75     'Mumbai',
76     400054,
77     'Maharashtra',
78     15000
79 );
80
81 •   SELECT * FROM CLIENT_MASTER;
82
83 •   INSERT INTO CLIENT_MASTER VALUES
84     ('C00003', 'Chhaya Bankar', 'Mumbai', 400057, 'Maharashtra', 5000),
85     ('C00004', 'Ashwini Joshi', 'Bangalore', 560001, 'Karnataka', 0),
86     ('C00005', 'Hansel Colaco', 'Mumbai', 400060, 'Maharashtra', 2000),
87     ('C00006', 'Deepak Sharma', 'Mangalore', 560050, 'Karnataka', 0);
88
89
90
91
92
```

## SQLAdditions



Jump to

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Context Help Snippets

## Output

## Action Output

#	Time	Action	Message	Duration / Fetch
✓	20 17:26:46	SELECT * FROM CLIENT_MASTER LIMIT 0, 50000	1 row(s) returned	0.000 sec / 0.000 sec
✗	21 17:32:51	INSERT INTO CLIENT_MASTER VALUES ('C00003', 'Chhaya Bankar', 'Mumbai', 400057, 'Maharashtra', 5000), ('C00004', 'Ashwini Joshi', 'Bangalore', 560001, 'Karnataka', 0), ('C00005', 'Hansel Colaco', 'Mumbai', 400060, 'Maharashtra', 2000), ('C00006', 'Deepak Sharma', 'Mangalore', 560050, 'Karnataka', 0);	Error Code: 1136. Column count doesn't match value count at row 1	0.016 sec
✓	22 17:34:32	INSERT INTO CLIENT_MASTER VALUES ('C00003', 'Chhaya Bankar', 'Mumbai', 400057, 'Maharashtra', 5000), ('C00004', 'Ashwini Joshi', 'Bangalore', 560001, 'Karnataka', 0), ('C00005', 'Hansel Colaco', 'Mumbai', 400060, 'Maharashtra', 2000), ('C00006', 'Deepak Sharma', 'Mangalore', 560050, 'Karnataka', 0);	4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0	0.156 sec

< >

Object Info Session

Query Completed



Type here to search



Desktop »



17:34

22-03-2025





## Navigator

## SCHEMAS

- books
- cdac\_python\_program

  - Tables
  - Views
  - Stored Procedures
  - Functions

- companydb
- elex\_bank
- ig\_clone
- introduction to sql a

Administration Schemas

## Information

Schema:  
cdac\_python\_program

cdac\_ex\_11 x cdac\_python\_program\_ex\_...

```

81 •  SELECT * FROM CLIENT_MASTER;
82
83 •  INSERT INTO CLIENT_MASTER VALUES
84      ('C00003', 'Chhaya Bankar', 'Mumbai', 400057, 'Maharashtra', 5000),
85      ('C00004', 'Ashwini Joshi', 'Bangalore', 560001, 'Karnataka', 0),
86      ('C00005', 'Hansel Colaco', 'Mumbai', 400060, 'Maharashtra', 2000),
87      ('C00006', 'Deepak Sharma', 'Mangalore', 560050, 'Karnataka', 0);
88
89 •  SELECT * FROM CLIENT_MASTER;
90
91
92
93

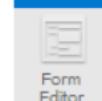
```

	CLIENTNO	NAME	CITY	PINCODE	STATE	BALDUE
▶	C00001	Ivan Bayross	Mumbai	400054	Maharashtra	15000.00
▶	C00003	Chhaya Bankar	Mumbai	400057	Maharashtra	5000.00
▶	C00004	Ashwini Joshi	Bangalore	560001	Karnataka	0.00
▶	C00005	Hansel Colaco	Mumbai	400060	Maharashtra	2000.00
▶	C00006	Deepak Sharma	Mangalore	560050	Karnataka	0.00
*	NULL	NULL	NULL	NULL	NULL	NULL

SQLAdditions

&lt; &gt; | ? ? | Jump to

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result  
GridForm  
Editor

Context Help Snippets

CLIENT\_MASTER 8 x

Apply

Revert

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✗	21 17:32:51	INSERT INTO CLIENT_MASTER VALUES('C00003', 'Chhaya Bankar', 'Mumbai', 400057, 'Maharashtra', 5000),	... Error Code: 1136. Column count doesn't match value count at row 1	0.016 sec
✓	22 17:34:32	INSERT INTO CLIENT_MASTER VALUES ('C00003', 'Chhaya Bankar', 'Mumbai', 400057, 'Maharashtra', 5000),	... 4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0	0.156 sec
✓	23 17:36:13	SELECT * FROM CLIENT_MASTER LIMIT 0, 50000	5 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed



Type here to search



Desktop »

17:36  
22-03-2025

## Data for PRODUCT\_MASTER table

PRODUC	DESCRIPTION	PROFITPERCENT	UNITMEASUR	QTYONHAND	REORDERLVL	SELLPRICE	COSTPRICE
P00001	T-Shirts	5	Piece	200	50	350	250
P03453	Shirts	6	Piece	150	50	500	350
P06734	Cotton Jeans	5	Piece	100	20	600	450
P07865	Jeans	5	Piece	100	20	750	500
P07868	Trousers	2	Piece	150	50	850	550
P07885	Pull Overs	2.5	Piece	80	30	700	450
P07965	Denim Shirts	4	Piece	100	40	350	250
P07975	Lycra Tops	5	Piece	70	30	300	175
P08865	Skirts	5	Piece	75	30	450	300

```
INSERT INTO PRODUCT_MASTER VALUES ('P00001', 'T-shirts', 5, 'Piece', 200, 50, 350, 250),
('P03453', 'Shirts', 6, 'Piece', 150, 50, 500, 350),
('P06734', 'Cotton Jeans', 5, 'Piece', 100, 20, 600, 450), ('P07865', 'Jeans', 5, 'Piece', 100, 20, 750, 500),
('P07868', 'Trousers', 2, 'Piece', 150, 50, 850, 550), ('P07885', 'Pull Overs', 2.5, 'Piece', 80, 30, 700, 450),
('P07965', 'Denim Shirts', 4, 'Piece', 100, 40, 350, 250), ('P07975', 'Lycra Tops', 5, 'Piece', 70, 30, 300, 175),
('P08865', 'Skirts', 5, 'Piece', 75, 30, 450, 300);
```



## Navigator

## SCHEMAS

- ▶ books
- ▼ cdac\_python\_program
  - Tables
  - Views
  - Stored Procedures
  - Functions
- ▶ companydb
- ▶ elex\_bank
- ▶ ig\_clone
- ▶ introduction to sql a

< Administration Schemas >

## Information

Schema:  
cdac\_python\_program

```
82
83 • INSERT INTO CLIENT_MASTER VALUES
84     ('C00003', 'Chhaya Bankar', 'Mumbai', 400057, 'Maharashtra', 5000),
85     ('C00004', 'Ashwini Joshi', 'Bangalore', 560001, 'Karnataka', 0),
86     ('C00005', 'Hansel Colaco', 'Mumbai', 400060, 'Maharashtra', 2000),
87     ('C00006', 'Deepak Sharma', 'Mangalore', 560050, 'Karnataka', 0);
88
89 • SELECT * FROM CLIENT_MASTER;
90
91 • INSERT INTO PRODUCT_MASTER VALUES
92     ('P00001', 'T-shirts', 5, 'Piece', 200, 50, 350, 250),
93     ('P03453', 'Shirts', 6, 'Piece', 150, 50, 500, 350),
94     ('P06734', 'Cotton Jeans', 5, 'Piece', 100, 20, 600, 450),
95     ('P07865', 'Jeans', 5, 'Piece', 100, 20, 750, 500),
96     ('P07868', 'Trousers', 2, 'Piece', 150, 50, 850, 550),
97     ('P07885', 'Pull Overs', 2.5, 'Piece', 80, 30, 700, 450),
98     ('P07965', 'Denim Shirts', 4, 'Piece', 100, 40, 350, 250),
99     ('P07975', 'Lycra Tops', 5, 'Piece', 70, 30, 300, 175),
100    ('P08865', 'Skirts', 5, 'Piece', 75, 30, 450, 300);
101
102
103
```

## SQLAdditions



Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Context Help Snippets

## Output

## Action Output

#	Time	Action	Message	Duration / Fetch
✓	22 17:34:32	INSERT INTO CLIENT_MASTER VALUES ('C00003', 'Chhaya Bankar', 'Mumbai', 400057, 'Maharashtra', 5000),	... 4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0	0.156 sec
✓	23 17:36:13	SELECT * FROM CLIENT_MASTER LIMIT 0, 50000	5 row(s) returned	0.000 sec / 0.000 sec
✓	24 17:47:34	INSERT INTO PRODUCT_MASTER VALUES ('P00001', 'T-shirts', 5, 'Piece', 200, 50, 350, 250), ('P03453', 'Shir...',	9 row(s) affected Records: 9 Duplicates: 0 Warnings: 0	0.094 sec

Object Info Session



Type here to search



Desktop »



17:48

22-03-2025



File Edit View Query Database Server Tools Scripting Help



## Navigator

cdac\_ex\_11 × cdac\_python\_programming\_ex...

## SCHEMAS

- Filter objects
- books
  - cdac\_python\_programming**
    - Tables
    - Views
    - Stored Procedures
    - Functions
  - companydb
  - elex\_bank
  - ig\_clone
  - introduction to sql a

Administration Schemas

## Information

Schema:  
cdac\_python\_programming

	PRODUCTNO	DESCRIPTION	PROFITPERCENT	UNITMEASURE	QTYONHAND	REORDERLVL	SELLPRICE	COSTPRICE
▶	P00001	T-shirts	5.00	Piece	200	50	350.00	250.00
	P03453	Shirts	6.00	Piece	150	50	500.00	350.00
	P06734	Cotton Jeans	5.00	Piece	100	20	600.00	450.00
	P07865	Jeans	5.00	Piece	100	20	750.00	500.00
	P07868	Trousers	2.00	Piece	150	50	850.00	550.00
	P07885	Pull Overs	2.50	Piece	80	30	700.00	450.00
	P07965	Denim Shirts	4.00	Piece	100	40	350.00	250.00
	P07975	Lycra Tops	5.00	Piece	70	30	300.00	175.00
	P08865	Skirts	5.00	Piece	75	30	450.00	300.00
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

## SQLAdditions

Jump to

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

PRODUCT\_MASTER 9 ×

Apply

Revert

Context Help Snippets

## Output

## Action Output

#	Time	Action	Message	Duration / Fetch
23	17:36:13	SELECT * FROM CLIENT_MASTER LIMIT 0, 50000	5 row(s) returned	0.000 sec / 0.000 sec
24	17:47:34	INSERT INTO PRODUCT_MASTER VALUES (P00001, 'T-shirts', 5, 'Piece', 200, 50, 350, 250), (P03453, 'Shir...', (P06734, 'Cotton Je...)	9 row(s) affected Records: 9 Duplicates: 0 Warnings: 0	0.094 sec
25	17:48:40	SELECT * FROM PRODUCT_MASTER LIMIT 0, 50000	9 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed



Type here to search



Desktop



ENG

17:48  
22-03-2025

## Data for SALESMAN\_MASTER table

SALESM	SALESMANNAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	SALAMT	TGTTOGET	YTDsales	REMARKS
S00001	Aman	A/14	Worli	Mumbai	400002	Maharashtra	3000	100	50	Good
S00002	Omkar	65	Nariman	Mumbai	400001	Maharashtra	3000	200	100	Good
S00003	Raj	P-7	Bandra	Mumbai	400032	Maharashtra	3000	200	100	Good
S00004	Ashish	A/5	Juhu	Bombay	400044	Maharashtra	3500	200	150	Good

INSERT INTO SALESMAN\_MASTER VALUES

```
('S00001', 'Aman', 'A/14', 'Worli', 'Mumbai', 400002, 'Maharashtra', 3000, 100, 50, 'Good'),  
('S00002', 'Omkar', '65', 'Nariman', 'Mumbai', 400001, 'Maharashtra', 3000, 200, 100, 'Good'),  
('S00003', 'Raj', 'P-7', 'Bandra', 'Mumbai', 400032, 'Maharashtra', 3000, 200, 100, 'Good'),  
('S00004', 'Ashish', 'A/5', 'Juhu', 'Bombay', 400044, 'Maharashtra', 3500, 200, 150, 'Good');
```



Navigator cdac\_ex\_11\* x cdac\_python\_programming\_ex\_...

SQLAdditions:

## SCHEMAS

Filter objects

books

cdac\_python\_programmi

## Tables

- client\_master
- product\_master
- sales\_order
- sales\_order\_details
- salesman\_master

## Views

## Stored Procedures

Administration Schemas

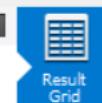
## Information

Schema:  
cdac\_python\_program

```

101
102 •  SELECT * FROM PRODUCT_MASTER;
103
104 •  INSERT INTO SALESMAN_MASTER VALUES
105      ('S00001', 'Aman', 'A/14', 'Worli', 'Mumbai', 400002, 'Maharashtra', 3000, 100, 50, 'Good'),
106      ('S00002', 'Omkar', '65', 'Nariman', 'Mumbai', 400001, 'Maharashtra', 3000, 200, 100, 'Good'),
107      ('S00003', 'Raj', 'P-7', 'Bandra', 'Mumbai', 400032, 'Maharashtra', 3000, 200, 100, 'Good'),
108      ('S00004', 'Ashish', 'A/5', 'Juhu', 'Bombay', 400044, 'Maharashtra', 3500, 200, 150, 'Good');
109
110 •  SELECT * FROM SALESMAN_MASTER;
```

	SALESMANNO	SALESMANNAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	SALAMT	TGTTOTGET	YTDSALES	REMARKS
▶	S00001	Aman	A/14	Worli	Mumbai	400002	Maharashtra	3000.00	100.00	50.00	Good
▶	S00002	Omkar	65	Nariman	Mumbai	400001	Maharashtra	3000.00	200.00	100.00	Good
▶	S00003	Raj	P-7	Bandra	Mumbai	400032	Maharashtra	3000.00	200.00	100.00	Good
▶	S00004	Ashish	A/5	Juhu	Bombay	400044	Maharashtra	3500.00	200.00	150.00	Good
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL



Result Grid



Form Editor



Field Types

SALESMAN\_MASTER 10 x Apply Revert Context Help Snippets

## Output

## Action Output

#	Time	Action	Message	Duration / Fetch
25	17:48:40	SELECT * FROM PRODUCT_MASTER LIMIT 0, 50000	9 row(s) returned	0.000 sec / 0.000 sec
26	18:03:58	INSERT INTO SALESMAN_MASTER VALUES ('S00001', 'Aman', 'A/14', 'Worli', 'Mumbai', 400002, 'Maharashtra', 3000, 100, 50, 'Good')	4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0	0.141 sec
27	18:04:20	SELECT * FROM SALESMAN_MASTER LIMIT 0, 50000	4 row(s) returned	0.000 sec / 0.000 sec

Object Info Session



Type here to search



Desktop »



18:04

22-03-2025



### Data for Sales\_Order Table

ORDERN	CLIENT	ORDERDATE	DELYADDR	SALESM	D	B	DELYDATE	ORDERSTATU
O19003	C00001	03-APR-02	Delhi	S00001	F	Y	07-APR-02	Fulfilled
O46866	C00004	20-MAY-02	Delhi	S00002	P	N	22-MAY-02	Cancelled
O19008	C00005	24-MAY-02	Delhi	S00004	F	N	26-JUL-96	In Process
O19001	C00001	12-JUN-02	Delhi	S00001	F	N	20-JUL-02	In Process
O19002	C00002	25-JUN-02	Delhi	S00002	P	N	27-JUL-02	Cancelled

INSERT INTO SALES\_ORDER VALUES

```
('O19003', 'C00001', '2002-04-03', 'Delhi', 'S00001', 'F', 'Y', '2002-04-07', 'Fulfilled'),  
('O46866', 'C00004', '2002-05-20', 'Delhi', 'S00002', 'P', 'N', '2002-05-22', 'Cancelled'),  
('O19008', 'C00005', '2002-05-24', 'Delhi', 'S00004', 'F', 'N', '1996-07-26', 'In Process'),  
('O19001', 'C00001', '2002-06-12', 'Delhi', 'S00001', 'F', 'N', '2002-07-20', 'In Process'),  
('O19002', 'C00003', '2002-06-25', 'Delhi', 'S00002', 'P', 'N', '2002-07-27', 'Cancelled');
```

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

SQl SQL+ Tables Databases Search

Navigator cdac\_ex\_11\* cdac\_python\_programming\_ex\_...

SCHEMAS Filter objects books cdac\_python\_programmi Tables client\_master product\_master sales\_order sales\_order\_details salesman\_master Views Stored Procedures Administration Schemas

111  
112 • INSERT INTO SALES\_ORDER VALUES  
113 ('019003', 'C00001', '2002-04-03', 'Delhi', 'S00001', 'F', 'Y', '2002-04-07', 'Fulfilled'),  
114 ('046866', 'C00004', '2002-05-20', 'Delhi', 'S00002', 'P', 'N', '2002-05-22', 'Cancelled'),  
115 ('019008', 'C00005', '2002-05-24', 'Delhi', 'S00004', 'F', 'N', '1996-07-26', 'In Process'),  
116 ('019001', 'C00001', '2002-06-12', 'Delhi', 'S00001', 'F', 'N', '2002-07-20', 'In Process'),  
117 ('019002', 'C00003', '2002-06-25', 'Delhi', 'S00002', 'P', 'N', '2002-07-27', 'Cancelled');  
118  
119 • SELECT \* FROM SALES\_ORDER;

Information Schema: cdac\_python\_program

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result Grid | Form Editor | Field Types

ORDERNO	CLIENTNO	ORDERDATE	DELYADDR	SALESMANNO	DELYTYPE	BILLYN	DELYDATE	ORDERSTATUS
O19001	C00001	2002-06-12	Delhi	S00001	F	N	2002-07-20	In Process
O19002	C00003	2002-06-25	Delhi	S00002	P	N	2002-07-27	Cancelled
O19003	C00001	2002-04-03	Delhi	S00001	F	Y	2002-04-07	Fulfilled
O19008	C00005	2002-05-24	Delhi	S00004	F	N	1996-07-26	In Process
O46866	C00004	2002-05-20	Delhi	S00002	P	N	2002-05-22	Cancelled
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

SALES\_ORDER 11 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✗	30 18:16:20	INSERT INTO SALES_ORDER VALUES ('O19003', 'C00001', '2002-04-03', 'Delhi', 'S00001', 'F', 'Y', '2002-04-07', ...)	Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails ('cdac_python_programming_ex...')	0.797 sec
✓	31 18:21:43	INSERT INTO SALES_ORDER VALUES ('O19003', 'C00001', '2002-04-03', 'Delhi', 'S00001', 'F', 'Y', '2002-04-07', ...)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.188 sec
✓	32 18:22:01	SELECT * FROM SALES_ORDER LIMIT 0, 50000	5 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed



Type here to search



Desktop

18:22  
22-03-2025

**Data for Sales\_Order\_Details Table**

OrderNo	ProductNo	Qtyordered	QtyDisp	ProductRate
O19001	P00001	4	4	525
O19001	P07965	2	1	8400
O19001	P07885	2	1	5250
O19002	P00001	10	0	525
O46865	P07868	3	3	3150
O46865	P07885	3	1	5250
O46865	P00001	10	10	525
O46865	P03453	4	4	1050
O19003	P03453	2	2	1050
O19003	P06734	1	1	12000
O46866	P07965	1	0	8400
O46866	P07975	1	0	1050
O19008	P00001	10	5	525
O19008	P07975	5	3	1050

**INSERT INTO SALES\_ORDER\_DETAILS VALUES**

```
('O19001', 'P00001', 4, 4, 525), ('O19001', 'P07965', 2, 1, 8400),
('O19001', 'P07885', 4, 1, 5250), ('O19002', 'P00001', 10, 0, 525),
('O46866', 'P07868', 3, 3, 3150), ('O46866', 'P07885', 3, 1, 5250),
('O46866', 'P00001', 10, 10, 525), ('O46866', 'P03453', 4, 4, 1050),
('O19003', 'P03453', 2, 2, 1050), ('O19003', 'P06734', 1, 1, 12000),
('O46866', 'P07965', 1, 0, 8400), ('O46866', 'P07975', 1, 0, 1050),
('O19008', 'P00001', 10, 5, 525), ('O19008', 'P07975', 5, 3, 1050);
```

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Schemas

Filter objects

books

cdac\_python\_programming

Tables

- client\_master
- product\_master
- sales\_order
- sales\_order\_details
- salesman\_master

Views

Stored Procedures

Administration Schemas

Information

Schema: cdac\_python\_programming

cdac\_ex\_11\* × cdac\_python\_programming\_ex\_...

Limit to 50000 rows

126 ('019002', 'P00001', 10, 0, 525),  
127 ('046866', 'P07868', 3, 3, 3150),  
128 ('046866', 'P07885', 3, 1, 5250),  
129 ('046866', 'P00001', 10, 10, 525),  
130 ('046866', 'P03453', 4, 4, 1050),  
131 ('019003', 'P03453', 2, 2, 1050),  
132 ('019003', 'P06734', 1, 1, 12000),  
133 ('046866', 'P07965', 1, 0, 8400),  
134 ('046866', 'P07975', 1, 0, 1050),  
135 ('019008', 'P00001', 10, 5, 525),  
136 ('019008', 'P07975', 5, 3, 1050);  
137  
138 • SELECT \* FROM SALES\_ORDER\_DETAILS;  
139

Result Grid | Filter Rows: Export: Wrap Cell Content:

	ORDERNO	PRODUCTNO	QTYORDERED	QTYSUPPLIED	PRODUCTRATE
▶	O19001	P00001	4	4	525.00
	O19001	P07965	2	1	8400.00
	O19001	P07885	4	1	5250.00
	O19002	P00001	10	0	525.00
	046866	P07868	3	3	3150.00

SALES ORDER DETAILS 12 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✖	33	18:56:12 INSERT INTO SALES_ORDER_DETAILS VALUES (O19001,'P00001',4,4,525), (O19001,'P07965',2,1,8...	Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails ('cdac_python_programming_ex_...' 0.188 sec	
✓	34	19:00:05 INSERT INTO SALES_ORDER_DETAILS VALUES (O19001,'P00001',4,4,525), (O19001,'P07965',2,1,8...	14 row(s) affected Records: 14 Duplicates: 0 Warnings: 0	0.141 sec
✓	35	19:00:20 SELECT * FROM SALES_ORDER_DETAILS LIMIT 0,50000	14 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed



Type here to search



Desktop »



ENG

19:00

22-03-2025



**3. Generate the SQL statements to perform the following computations on table data in Python IDLE:**

- a. List the names of all clients having ‘a’ as the second letter in their names.
- b. List the clients who stay in a city whose first letter is ‘M’.
- c. List all clients who stay in ‘Bangalore’ or ‘Mangalore’.
- d. List all clients whose BalDue is greater than value 10000.
- e. List all information from the Sales\_order table for order placed in the month of June.
- f. List the Order No & day on which clients placed their order.
- g. List the names, city and state of clients who are not in the state of ‘Maharashtra’.

Command Prompt - mysql -u root -p  
Microsoft Windows [Version 10.0.19045.5608]  
(c) Microsoft Corporation. All rights reserved.

C:\Users\Advait>mysql -root -p  
Enter password: \*\*\*\*\*  
ERROR 1045 (28000): Access denied for user 'ODBC'@'localhost' (using password: YES)

C:\Users\Advait>mysql -u root -p  
Enter password: \*\*\*\*\*  
Welcome to the MySQL monitor. Commands end with ; or \g.  
Your MySQL connection id is 15  
Server version: 8.0.33 MySQL Community Server - GPL

Copyright (c) 2000, 2023, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its  
affiliates. Other names may be trademarks of their respective  
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> use cdac_python_prgramming_ex_11;
ERROR 1049 (42000): Unknown database 'cdac_python_prgramming_ex_11'
mysql> use cdac_python_programming_ex_11;
Database changed
mysql> select * from client_master;
```

CLIENTNO	NAME	CITY	PINCODE	STATE	BALDUE
C00001	Ivan Bayross	Mumbai	400054	Maharashtra	15000.00
C00003	Chhaya Bankar	Mumbai	400057	Maharashtra	5000.00
C00004	Ashwini Joshi	Bangalore	560001	Karnataka	0.00
C00005	Hansel Colaco	Mumbai	400060	Maharashtra	2000.00
C00006	Deepak Sharma	Mangalore	560050	Karnataka	0.00

5 rows in set (0.02 sec)

```
mysql> -
```



Command Prompt - mysql -u root -p

Enter password: \*\*\*\*\*

ERROR 1045 (28000): Access denied for user 'ODBC'@'localhost' (using password: YES)

C:\Users\Advait>mysql -u root -p

Enter password: \*\*\*\*\*

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 15

Server version: 8.0.33 MySQL Community Server - GPL

Copyright (c) 2000, 2023, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its  
affiliates. Other names may be trademarks of their respective  
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use cdac\_python\_prgramming\_ex\_11;

ERROR 1049 (42000): Unknown database 'cdac\_python\_prgramming\_ex\_11'

mysql> use cdac\_python\_programming\_ex\_11;

Database changed

mysql> select \* from client\_master;

CLIENTNO	NAME	CITY	PINCODE	STATE	BALDUE
C00001	Ivan Bayross	Mumbai	400054	Maharashtra	15000.00
C00003	Chhaya Bankar	Mumbai	400057	Maharashtra	5000.00
C00004	Ashwini Joshi	Bangalore	560001	Karnataka	0.00
C00005	Hansel Colaco	Mumbai	400060	Maharashtra	2000.00
C00006	Deepak Sharma	Mangalore	560050	Karnataka	0.00

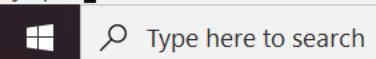
5 rows in set (0.02 sec)

mysql> select \* from product\_master;

PRODUCTNO	DESCRIPTION	PROFITPERCENT	UNITMEASURE	QTYONHAND	REORDERLVL	SELLPRICE	COSTPRICE
P00001	T-shirts	5.00	Piece	200	50	350.00	250.00
P03453	Shirts	6.00	Piece	150	50	500.00	350.00
P06734	Cotton Jeans	5.00	Piece	100	20	600.00	450.00
P07865	Jeans	5.00	Piece	100	20	750.00	500.00
P07868	Trousers	2.00	Piece	150	50	850.00	550.00
P07885	Pull Overs	2.50	Piece	80	30	700.00	450.00
P07965	Denim Shirts	4.00	Piece	100	40	350.00	250.00
P07975	Lycra Tops	5.00	Piece	70	30	300.00	175.00
P08865	Skirts	5.00	Piece	75	30	450.00	300.00

9 rows in set (0.00 sec)

mysql>



affiliates. Other names may be trademarks of their respective owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> use cdac_python_prgramming_ex_11;
```

ERROR 1049 (42000): Unknown database 'cdac\_python\_prgramming\_ex\_11'

```
mysql> use cdac_python_programming_ex_11;
```

Database changed

```
mysql> select * from client_master;
```

CLIENTNO	NAME	CITY	PINCODE	STATE	BALDUE
C00001	Ivan Bayross	Mumbai	400054	Maharashtra	15000.00
C00003	Chhaya Bankar	Mumbai	400057	Maharashtra	5000.00
C00004	Ashwini Joshi	Bangalore	560001	Karnataka	0.00
C00005	Hansel Colaco	Mumbai	400060	Maharashtra	2000.00
C00006	Deepak Sharma	Mangalore	560050	Karnataka	0.00

5 rows in set (0.02 sec)

```
mysql> select * from product_master;
```

PRODUCTNO	DESCRIPTION	PROFITPERCENT	UNITMEASURE	QTYONHAND	REORDERLVL	SELLPRICE	COSTPRICE
P00001	T-shirts	5.00	Piece	200	50	350.00	250.00
P03453	Shirts	6.00	Piece	150	50	500.00	350.00
P06734	Cotton Jeans	5.00	Piece	100	20	600.00	450.00
P07865	Jeans	5.00	Piece	100	20	750.00	500.00
P07868	Trousers	2.00	Piece	150	50	850.00	550.00
P07885	Pull Overs	2.50	Piece	80	30	700.00	450.00
P07965	Denim Shirts	4.00	Piece	100	40	350.00	250.00
P07975	Lycra Tops	5.00	Piece	70	30	300.00	175.00
P08865	Skirts	5.00	Piece	75	30	450.00	300.00

9 rows in set (0.00 sec)

```
mysql> select * from sales_order;
```

ORDERNO	CLIENTNO	ORDERDATE	DELYADDR	SALESMANNO	DELYTYPE	BILLYN	DELYDATE	ORDERSTATUS
019001	C00001	2002-06-12	Delhi	S00001	F	N	2002-07-20	In Process
019002	C00003	2002-06-25	Delhi	S00002	P	N	2002-07-27	Cancelled
019003	C00001	2002-04-03	Delhi	S00001	F	Y	2002-04-07	Fulfilled
019008	C00005	2002-05-24	Delhi	S00004	F	N	1996-07-26	In Process
046866	C00004	2002-05-20	Delhi	S00002	P	N	2002-05-22	Cancelled

5 rows in set (0.00 sec)

```
mysql>
```



CLIENTNO	NAME	CITY	PINCODE	STATE	BALDUE
C00001	Ivan Bayross	Mumbai	400054	Maharashtra	15000.00
C00003	Chhaya Bankar	Mumbai	400057	Maharashtra	5000.00
C00004	Ashwini Joshi	Bangalore	560001	Karnataka	0.00
C00005	Hansel Colaco	Mumbai	400060	Maharashtra	2000.00
C00006	Deepak Sharma	Mangalore	560050	Karnataka	0.00

5 rows in set (0.02 sec)

mysql&gt; select \* from product\_master;

PRODUCTNO	DESCRIPTION	PROFITPERCENT	UNITMEASURE	QTYONHAND	REORDERLVL	SELLPRICE	COSTPRICE
P00001	T-shirts	5.00	Piece	200	50	350.00	250.00
P03453	Shirts	6.00	Piece	150	50	500.00	350.00
P06734	Cotton Jeans	5.00	Piece	100	20	600.00	450.00
P07865	Jeans	5.00	Piece	100	20	750.00	500.00
P07868	Trousers	2.00	Piece	150	50	850.00	550.00
P07885	Pull Overs	2.50	Piece	80	30	700.00	450.00
P07965	Denim Shirts	4.00	Piece	100	40	350.00	250.00
P07975	Lycra Tops	5.00	Piece	70	30	300.00	175.00
P08865	Skirts	5.00	Piece	75	30	450.00	300.00

9 rows in set (0.00 sec)

mysql&gt; select \* from sales\_order;

ORDERNO	CLIENTNO	ORDERDATE	DELYADDR	SALESMANNO	DELYTYPE	BILLYN	DELYDATE	ORDERSTATUS
019001	C00001	2002-06-12	Delhi	S00001	F	N	2002-07-20	In Process
019002	C00003	2002-06-25	Delhi	S00002	P	N	2002-07-27	Cancelled
019003	C00001	2002-04-03	Delhi	S00001	F	Y	2002-04-07	Fulfilled
019008	C00005	2002-05-24	Delhi	S00004	F	N	1996-07-26	In Process
046866	C00004	2002-05-20	Delhi	S00002	P	N	2002-05-22	Cancelled

5 rows in set (0.00 sec)

mysql&gt; select \* from salesman\_master;

SALESMANNO	SALESMANNAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	SALAMT	TGTTOTGET	YTDSALES	REMARKS
S00001	Aman	A/14	Worli	Mumbai	400002	Maharashtra	3000.00	100.00	50.00	Good
S00002	Omkar	65	Nariman	Mumbai	400001	Maharashtra	3000.00	200.00	100.00	Good
S00003	Raj	P-7	Bandra	Mumbai	400032	Maharashtra	3000.00	200.00	100.00	Good
S00004	Ashish	A/5	Juhu	Bombay	400044	Maharashtra	3500.00	200.00	150.00	Good

4 rows in set (0.00 sec)

mysql&gt;



P07975	Lycra Tops	5.00	Piece	70	30	300.00	175.00
P08865	Skirts	5.00	Piece	75	30	450.00	300.00

9 rows in set (0.00 sec)

```
mysql> select * from sales_order;
```

ORDERNO	CLIENTNO	ORDERDATE	DELYADDR	SALESMANNO	DELYTYPE	BILLYN	DELYDATE	ORDERSTATUS
019001	C00001	2002-06-12	Delhi	S00001	F	N	2002-07-20	In Process
019002	C00003	2002-06-25	Delhi	S00002	P	N	2002-07-27	Cancelled
019003	C00001	2002-04-03	Delhi	S00001	F	Y	2002-04-07	Fulfilled
019008	C00005	2002-05-24	Delhi	S00004	F	N	1996-07-26	In Process
046866	C00004	2002-05-20	Delhi	S00002	P	N	2002-05-22	Cancelled

5 rows in set (0.00 sec)

```
mysql> select * from salesman_master;
```

SALESMANNO	SALESMANNAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	SALAMT	TGTTOTGET	YTDSALES	REMARKS
S00001	Aman	A/14	Worli	Mumbai	400002	Maharashtra	3000.00	100.00	50.00	Good
S00002	Omkar	65	Nariman	Mumbai	400001	Maharashtra	3000.00	200.00	100.00	Good
S00003	Raj	P-7	Bandra	Mumbai	400032	Maharashtra	3000.00	200.00	100.00	Good
S00004	Ashish	A/5	Juhu	Bombay	400044	Maharashtra	3500.00	200.00	150.00	Good

4 rows in set (0.00 sec)

```
mysql> select * from sales_order_details;
```

ORDERNO	PRODUCTNO	QTYORDERED	QTYDISP	PRODUCTRATE
019001	P00001	4	4	525.00
019001	P07965	2	1	8400.00
019001	P07885	4	1	5250.00
019002	P00001	10	0	525.00
046866	P07868	3	3	3150.00
046866	P07885	3	1	5250.00
046866	P00001	10	10	525.00
046866	P03453	4	4	1050.00
019003	P03453	2	2	1050.00
019003	P06734	1	1	12000.00
046866	P07965	1	0	8400.00
046866	P07975	1	0	1050.00
019008	P00001	10	5	525.00
019008	P07975	5	3	1050.00

14 rows in set (0.04 sec)

mysql&gt;



```
db_con_test.py - C:/Users/Advait/Desktop/CDAC/ASSIGNMENTS -- SOLUTIONS/MODULE -- PYTHON PROGRAMMING/LAB EXERCISE 11/db_con_test.py (3.12.6)
File Edit Format Run Options Window Help
import mysql.connector
from mysql.connector import Error

try:
    conn = mysql.connector.connect(host = 'localhost',
                                    database = 'cdac_python_programming_ex_11',
                                    user = 'root',
                                    password = 'Advait@0305')

    if conn.is_connected():
        db_info = conn.get_server_info()
        print('Connected to MySQL Server version ', db_info)
        cursor = conn.cursor()
        cursor.execute('Select database();')
        record = cursor.fetchone()
        print("You're connected to database : ", record)

except Error as e:
    print('Error while connecting to MySQL', e)

finally:
    if 'conn' in locals() and conn.is_connected():
        cursor.close()
        conn.close()
    print('MySQL connection is closed!')
```

```
C:\Users\Advait\Desktop\CDAC\ASSIGNMENTS -- SOLUTIONS\MODULE -- PYTHON PROGRAMMING\LAB EXERCISE 11>python db_con_test.py
Connected to MySQL Server version 8.0.33
You're connected to database : ('cdac_python_programming_ex_11',)
MySQL connection is closed!
P
C:\Users\Advait\Desktop\CDAC\ASSIGNMENTS -- SOLUTIONS\MODULE -- PYTHON PROGRAMMING\LAB EXERCISE 11>
B
```

**3. Generate the SQL statements to perform the following computations on table data in Python IDLE:**

- a. List the names of all clients having 'a' as the second letter in their names.

```
ex_11_1.py - C:/Users/Advait/Desktop/CDAC/ASSIGNMENTS -- SOLUTIONS/MODULE -- PYTHON PROGRAMMING/LAB EXERCISE 11/ex_11_1.py (3.12.6)
File Edit Format Run Options Window Help
import mysql.connector
from mysql.connector import Error
try:
    conn = mysql.connector.connect(host = 'localhost',
                                    database = 'cdac_python_programming_ex_11',
                                    user = 'root',
                                    password = 'Advait@0305')
    if conn.is_connected():
        cursor = conn.cursor()
        query = "SELECT name FROM CLIENT_MASTER WHERE name| LIKE '_a%';"
        cursor.execute(query)
        results = cursor.fetchall()
        print("Clients with 'a' as the second letter in their name:")
        for row in results:
            print(row[0])
except Error as e:
    print('Error while connecting to MySQL:', e)
finally:
    if 'conn' in locals() and conn.is_connected():
        cursor.close()
        conn.close()
        print('MySQL connection is closed!')
```

C:\Users\Advait\Desktop\CDAC\ASSIGNMENTS -- SOLUTIONS\MODULE -- PYTHON PROGRAMMING\LAB EXERCISE 11>python ex\_11\_1.py  
Clients with 'a' as the second letter in their name:  
Hansel Colaco  
MySQL connection is closed!

C:\Users\Advait\Desktop\CDAC\ASSIGNMENTS -- SOLUTIONS\MODULE -- PYTHON PROGRAMMING\LAB EXERCISE 11>



Ln: 14 Col: 58

19:40 22-03-2025

## b. List the clients who stay in a city whose first letter is ‘M’.

```
ex_11_2.py - C:\Users\Advait\Desktop\CDAC\ASSIGNMENTS -- SOLUTIONS\MODULE -- PYTHON PROGRAMMING\LAB EXERCISE 11\ex_11_2.py (3.12.6)
File Edit Format Run Options Window Help
#b. List the clients who stay in a city whose first letter is 'M'.
import mysql.connector
from mysql.connector import Error

try:
    conn = mysql.connector.connect(host = 'localhost',
                                    database = 'cdac_python_programming_ex_11',
                                    user = 'root',
                                    password = 'Advait@0305')

    if conn.is_connected():
        cursor = conn.cursor()

        query = "SELECT NAME, CITY FROM CLIENT_MASTER WHERE CITY LIKE 'M%';"
        cursor.execute(query)

        results = cursor.fetchall()
        if results:
            print("Clients who stay in a city whose first letter is 'M':")
            for row in results:
                print(f"Name: {row[0]}, City: {row[1]}")
        else:
            print("No clients found in cities starting with 'M'.")
except Error as e:
    print('Error while connecting to MySQL:', e)

finally:
    if 'conn' in locals() and conn.is_connected():
        cursor.close()
        conn.close()
        print('MySQL connection is closed!')
```

```
C:\Users\Advait\Desktop\CDAC\ASSIGNMENTS -- SOLUTIONS\MODULE -- PYTHON PROGRAMMING\LAB EXERCISE 11>python ex_11_2.py
Clients who stay in a city whose first letter is 'M':
Name: Ivan Bayross, City: Mumbai
Name: Chhaya Bankar, City: Mumbai
Name: Hansel Colaco, City: Mumbai
Name: Deepak Sharma, City: Mangalore
MySQL connection is closed!
```

### c. List all clients who stay in ‘Bangalore’ or ‘Mangalore’.

ex\_11\_3.py - C:/Users/Advait/Desktop/CDAC/ASSIGNMENTS -- SOLUTIONS/MODULE -- PYTHON PROGRAMMING/LAB EXERCISE 11/ex\_11\_3.py (3.12.6)

File Edit Format Run Options Window Help

```
# c. List all clients who stay in ‘Bangalore’ or ‘Mangalore’.
```

```
import mysql.connector
from mysql.connector import Error

try:
    conn = mysql.connector.connect(host = 'localhost',
                                    database = 'cdac_python_programming_ex_11',
                                    user = 'root',
                                    password = 'Advait@0305')

    if conn.is_connected():
        cursor = conn.cursor()

        query = "SELECT NAME, CITY FROM CLIENT_MASTER WHERE CITY IN ('BANGALORE', 'MANGALORE');"
        cursor.execute(query)

        results = cursor.fetchall()
        if results:
            print("List of all clients who stay in 'Bangalore' or 'Mangalore'.")
            for row in results:
                print(f"Name: {row[0]}, City: {row[1]}")
        else:
            print("No clients found in cities starting with 'M'.")
except Error as e:
    print('Error while connecting to MySQL:', e)

finally:
    if 'conn' in locals() and conn.is_connected():
        cursor.close()
        conn.close()
        print('MySQL connection is closed!')
```



c. List all clients who stay in ‘Bangalore’ or ‘Mangalore’.

```
cmd Command Prompt
Microsoft Windows [Version 10.0.19045.5608]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Advait>cd "Desktop\CDAC\ASSIGNMENTS -- SOLUTIONS\MODULE -- PYTHON PROGRAMMING\LAB EXERCISE 11"

C:\Users\Advait\Desktop\CDAC\ASSIGNMENTS -- SOLUTIONS\MODULE -- PYTHON PROGRAMMING\LAB EXERCISE 11>DIR
Volume in drive C is Windows
Volume Serial Number is 9003-B1A4

Directory of C:\Users\Advait\Desktop\CDAC\ASSIGNMENTS -- SOLUTIONS\MODULE -- PYTHON PROGRAMMING\LAB EXERCISE 11

23-03-2025 10:39    <DIR>        .
23-03-2025 10:39    <DIR>        ..
22-03-2025 19:41      4,800 cdac_ex_11.sql
22-03-2025 17:36      321 CLIENT_MASTER.csv
22-03-2025 19:34      851 db_con_test.py
22-03-2025 19:42      994 ex_11_1.py
22-03-2025 19:49      1,130 ex_11_2.py
23-03-2025 10:41      1,158 ex_11_3.py
22-03-2025 17:49      531 PRODUCT_MASTER.csv
23-03-2025 10:38   10,103,597 Python_Programming_Lab_exercise_11.pptx
22-03-2025 18:05      398 SALESMAN_MASTER.csv
22-03-2025 18:22      405 SALES_ORDER.csv
22-03-2025 19:00      414 SALES_ORDER_DETAILS.csv
               11 File(s)   10,114,599 bytes
               2 Dir(s)  766,388,625,408 bytes free

C:\Users\Advait\Desktop\CDAC\ASSIGNMENTS -- SOLUTIONS\MODULE -- PYTHON PROGRAMMING\LAB EXERCISE 11>python ex_11_3.py
List of all clients who stay in ‘Bangalore’ or ‘Mangalore’.
Name: Ashwini Joshi, City: Bangalore
Name: Deepak Sharma, City: Mangalore
MySQL connection is closed!

C:\Users\Advait\Desktop\CDAC\ASSIGNMENTS -- SOLUTIONS\MODULE -- PYTHON PROGRAMMING\LAB EXERCISE 11>
```



Type here to search



Desktop



10:43  
23-03-2025



#### d. List all clients whose BalDue is greater than value 10000.

ex\_11\_4.py - C:/Users/Advait/Desktop/CDAC/ASSIGNMENTS -- SOLUTIONS/MODULE -- PYTHON PROGRAMMING/LAB EXERCISE 11/ex\_11\_4.py (3.12.6)

File Edit Format Run Options Window Help

```
# d. List all clients whose BalDue is greater than value 10000.
```

```
import mysql.connector
from mysql.connector import Error

try:
    conn = mysql.connector.connect(host = 'localhost',
                                    database = 'cdac_python_programming_ex_11',
                                    user = 'root',
                                    password = 'Advait@0305')

    if conn.is_connected():
        cursor = conn.cursor()

    query = "SELECT NAME, BALDUE FROM CLIENT_MASTER WHERE BALDUE > 10000;"
    cursor.execute(query)

    results = cursor.fetchall()
    if results:
        print("List of all clients whose BalDue is greater than value 10000.")
        for row in results:
            print(f"Name: {row[0]}, City: {row[1]}")
    else:
        print("No clients found whose BalDue is greater than value 10000. .")

except Error as e:
    print('Error while connecting to MySQL:', e)

finally:
    if 'conn' in locals() and conn.is_connected():
        cursor.close()
        conn.close()
        print('MySQL connection is closed!')
```

```
C:\Users\Advait\Desktop\CDAC\ASSIGNMENTS -- SOLUTIONS\MODULE -- PYTHON PROGRAMMING\LAB EXERCISE 11>python ex_11_4.py
List of all clients whose BalDue is greater than value 10000.
Name: Ivan Bayross, City: 15000.00
MySQL connection is closed!
```



e. List all information from the Sales\_order table for order placed in the month of June.

```
ex_11_5.py - C:/Users/Advait/Desktop/CDAC/ASSIGNMENTS -- SOLUTIONS/MODULE -- PYTHON PROGRAMMING/LAB EXERCISE 11/ex_11_5.py (3.12.6)
File Edit Format Run Options Window Help
# e. List all information from the Sales_order table for order placed in the month of June.

import mysql.connector
from mysql.connector import Error

try:
    conn = mysql.connector.connect(host = 'localhost',
                                    database = 'cdac_python_programming_ex_11',
                                    user = 'root',
                                    password = 'Advait@0305')

    if conn.is_connected():
        cursor = conn.cursor()

        query = "SELECT * FROM SALES_ORDER WHERE MONTH(ORDERDATE) = 6;"
        cursor.execute(query)

        results = cursor.fetchall()
        if results:
            print("List of information from the Sales_order table for order placed in the month of June.")
            for row in results:
                print(row)
        else:
            print("No orders found from the Sales_order table for order placed in the month of June.")

except Error as e:
    print('Error while connecting to MySQL:', e)

finally:
    if 'conn' in locals() and conn.is_connected():
        cursor.close()
        conn.close()
        print('MySQL connection is closed!')
```

```
C:\Users\Advait\Desktop\CDAC\ASSIGNMENTS -- SOLUTIONS\MODULE -- PYTHON PROGRAMMING\LAB EXERCISE 11>python ex_11_5.py
List of information from the Sales_order table for order placed in the month of June.
('019001', 'C00001', datetime.date(2002, 6, 12), 'Delhi', 'S00001', 'F', 'N', datetime.date(2002, 7, 20), 'In Process')
('019002', 'C00003', datetime.date(2002, 6, 25), 'Delhi', 'S00002', 'P', 'N', datetime.date(2002, 7, 27), 'Cancelled')
MySQL connection is closed!
```

## f. List the Order No & day on which clients placed their order.

ex\_11\_6.py - C:/Users/Advait/Desktop/CDAC/ASSIGNMENTS -- SOLUTIONS/MODULE -- PYTHON PROGRAMMING/LAB EXERCISE 11/ex\_11\_6.py (3.12.6)

File Edit Format Run Options Window Help

```
#f. List the Order No & day on which clients placed their order.
```

```
import mysql.connector
from mysql.connector import Error

try:
    conn = mysql.connector.connect(host = 'localhost',
                                    database = 'cdac_python_programming_ex_11',
                                    user = 'root',
                                    password = 'Advait@0305')

    if conn.is_connected():
        cursor = conn.cursor()

        query = "SELECT ORDERNO, DAYNAME(STR_TO_DATE(ORDERDATE, '%Y-%m-%d')) AS Order_Day FROM SALES_ORDER;"
        cursor.execute(query)

        results = cursor.fetchall()
        if results:
            print("List the Order No & day on which clients placed their order.")
            for row in results:
                print(row)
        else:
            print("No orders found.")

except Error as e:
    print('Error while connecting to MySQL:', e)

finally:
    if 'conn' in locals() and conn.is_connected():
        cursor.close()
        conn.close()
        print('MySQL connection is closed!')
```

C:\Users\Advait\Desktop\CDAC\ASSIGNMENTS -- SOLUTIONS\MODULE -- PYTHON PROGRAMMING\LAB EXERCISE 11>python ex\_11\_6.py

List the Order No & day on which clients placed their order.

```
('019001', 'Wednesday')
('019002', 'Tuesday')
('019003', 'Wednesday')
('019008', 'Friday')
('046866', 'Monday')
```

MySQL connection is closed!



Type here to search



g. List the names, city and state of clients who are not in the state of ‘Maharashtra’.

ex\_11\_7.py - C:/Users/Advait/Desktop/CDAC/ASSIGNMENTS -- SOLUTIONS/MODULE -- PYTHON PROGRAMMING/LAB EXERCISE 11/ex\_11\_7.py (3.12.6)

File Edit Format Run Options Window Help

```
#g. List the names, city and state of clients who are not in the state of 'Maharashtra'.
```

```
import mysql.connector
from mysql.connector import Error

try:
    conn = mysql.connector.connect(host = 'localhost',
                                    database = 'cdac_python_programming_ex_11',
                                    user = 'root',
                                    password = 'Advait@0305')

    if conn.is_connected():
        cursor = conn.cursor()

    query = "SELECT NAME, CITY, STATE FROM CLIENT_MASTER WHERE STATE NOT IN ('MAHARASHTRA');"
    cursor.execute(query)

    results = cursor.fetchall()
    if results:
        print("List of the names, city and state of clients who are not in the state of 'Maharashtra' ")
        for row in results:
            print(row)
    else:
        print("No such clients found!")

except Error as e:
    print('Error while connecting to MySQL:', e)

finally:
    if 'conn' in locals() and conn.is_connected():
        cursor.close()
        conn.close()
        print('MySQL connection is closed!')
```

```
C:\Users\Advait\Desktop\CDAC\ASSIGNMENTS -- SOLUTIONS\MODULE -- PYTHON PROGRAMMING\LAB EXERCISE 11>python ex_11_7.py
List of the names, city and state of clients who are not in the state of 'Maharashtra'
('Ashwini Joshi', 'Bangalore', 'Karnataka')
('Deepak Sharma', 'Mangalore', 'Karnataka')
MySQL connection is closed!
```

#### 4. Exercises on Using Having, Group By and Joins in Python IDLE:

- Printing the description and total quantity sold for each product.

```
ex_11_4_a.py - C:/Users/Advait/Desktop/CDAC/ASSIGNMENTS -- SOLUTIONS/MODULE -- PYTHON PROGRAMMING/LAB EXERCISE 11/ex_11_4_a.py (3.12.6)
File Edit Format Run Options Window Help
# a. Printing the description and total quantity sold for each product.

import mysql.connector
from mysql.connector import Error

try:
    conn = mysql.connector.connect(host = 'localhost',
                                    database = 'cdac_python_programming_ex_11',
                                    user = 'root',
                                    password = 'Advait@0305')

    if conn.is_connected():
        cursor = conn.cursor()

        query = """SELECT P.DESCRIPTION, SUM(S.QTYORDERED) AS Total_Quantity_Sold
                   FROM PRODUCT_MASTER P
                   JOIN SALES_ORDER_DETAILS S
                   ON P.PRODUCTNO = S.PRODUCTNO
                   GROUP BY P.DESCRIPTION;
"""
        cursor.execute(query)

        results = cursor.fetchall()
        if results:
            print("Printing the description and total quantity sold for each product.")
            for row in results:
                print(f'Product Description : {row[0]}, Product Quantity : {row[1]}')
        else:
            print("No records found!")

    except Error as e:
        print('Error while connecting to MySQL:', e)

finally:
    if 'conn' in locals() and conn.is_connected():
        cursor.close()
        conn.close()
        print('MySQL connection is closed!')
```



Ln: 37 Col: 50

11:19  
23-03-2025

#### **4. Exercises on Using Having, Group By and Joins in Python IDLE:**

- a. Printing the description and total quantity sold for each product.

```
C:\Users\Advait\Desktop\CDAC\ASSIGNMENTS -- SOLUTIONS\MODULE -- PYTHON PROGRAMMING\LAB EXERCISE 11>python ex_11_4_a.py
Printing the description and total quantity sold for each product.
Product Description : T-shirts, Product Quantity : 34
Product Description : Denim Shirts, Product Quantity : 3
Product Description : Pull Overs, Product Quantity : 7
Product Description : Trousers, Product Quantity : 3
Product Description : Shirts, Product Quantity : 6
Product Description : Cotton Jeans, Product Quantity : 1
Product Description : Lycra Tops, Product Quantity : 6
MySQL connection is closed!
```

b. Calculating the average quantity sold for each client that has a maximum order value of 15000.00.

```
ex_11_4_b.py - C:/Users/Advait/Desktop/CDAC/ASSIGNMENTS -- SOLUTIONS/MODULE -- PYTHON PROGRAMMING/LAB EXERCISE 11/ex_11_4_b.py (3.12.6)
File Edit Format Run Options Window Help
-->
conn = mysql.connector.connect(host = 'localhost',
                               database = 'cdac_python_programming_ex_11',
                               user = 'root',
                               password = 'Advait@0305')

if conn.is_connected():
    cursor = conn.cursor()

    query = """
WITH OrderValues AS (
SELECT so.CLIENTNO, sod.ORDERNO, (sod.QTYORDERED * sod.PRODUCTRATE) AS TotalOrderValue
FROM SALES_ORDER so
JOIN SALES_ORDER_DETAILS sod ON so.ORDERNO = sod.ORDERNO
),
FilteredClients AS (
SELECT CLIENTNO FROM OrderValues
GROUP BY CLIENTNO
HAVING MAX(TotalOrderValue) <= 15000
)
SELECT so.CLIENTNO, AVG(sod.QTYORDERED) AS AvgQuantitySold
FROM SALES_ORDER so
JOIN SALES_ORDER_DETAILS sod ON so.ORDERNO = sod.ORDERNO
WHERE so.CLIENTNO IN (SELECT CLIENTNO FROM FilteredClients)
GROUP BY so.CLIENTNO;

"""
    cursor.execute(query)

    results = cursor.fetchall()
    if results:
        print("Client-wise Average Quantity Sold (for orders of 15000.00):")
        for row in results:
            print(f"Client No: {row[0]}, Average Quantity Sold: {row[1]}")
    else:
        print("No records found!")

except Error as e:
    print('Error while connecting to MySQL:', e)

finally:
    if 'conn' in locals() and conn.is_connected():
        cursor.close()
        conn.close()
        print('MySQL connection is closed!')
```

Ln: 16 Col: 0

b. Calculating the average quantity sold for each client that has a maximum order value of 15000.00.

```
C:\Users\Advait\Desktop\CDAC\ASSIGNMENTS -- SOLUTIONS\MODULE -- PYTHON PROGRAMMING\LAB EXERCISE 11>python ex_11_4_b.py
Client-wise Average Quantity Sold (for orders of 15000.00):
Client No: C00003, Average Quantity Sold: 10.0000
Client No: C00005, Average Quantity Sold: 7.5000
MySQL connection is closed!
```