

Big Data Tools for Managers

Dept. of MBA, Siddaganga Institute of Technology-Tumkur

Below is the link to download sample_db dataset; this exercise makes you familiar with Union, Union All and View in MySQL.

Link-1 : https://raw.githubusercontent.com/sitmbadept/sitmbadept.github.io/main/BDTM/SQL/sample_db.sql

OR

Link-2 : <https://drive.google.com/file/d/18jUcbMpZv8NZqc4xQLeJdLg3X1duaVKA/view?usp=sharing>

Write SQL Code for following Statements.

1. Import sample_db database into MySQL.
2. List all the tables available in sample_db
3. Display all the records from customers_1
4. Display all the records from customers_2
5. Combine customers_1 and customers_2 tables
6. Combine customers_1 and customers_2 tables; also display duplicate records if available
7. Display common records from the customers_1 and customers_2
8. Select Customer names from both table (customers_1 and customers_2)
9. Create View to display all the records from customers_1 and customers_2
10. Create View to display common records from customers_1 and customers_2

1. Import sample_db database

Copy pastes entire SQL codes from given link.

un SQL query/queries on server "127.0.0.1":

```
59 DROP TABLE IF EXISTS `customers_2`;
60
61 CREATE TABLE `customers_2` ( `customerNumber` int(11) NOT NULL, `customerName` varchar(50) NOT NULL, `contactLastName` varchar(50) NOT NULL, `contactFirstName` varchar(50) NOT NULL, `phone` varchar(50) NOT NULL,
`addressLine1` varchar(50) NOT NULL, `addressLine2` varchar(50) DEFAULT NULL, `city` varchar(50) NOT NULL, `state` varchar(50) DEFAULT NULL, `postalCode` varchar(15) DEFAULT NULL, `country` varchar(50) NOT NULL,
`salesRepEmployeeNumber` int(11) DEFAULT NULL, `creditLimit` decimal(10,2) DEFAULT NULL, PRIMARY KEY (`customerNumber`) );
62
63 INSERT INTO `customers_2` VALUES
64 (103,'Atelier graphique','Schmitt','Carine ','40.32.2555','54, rue Royale',NULL,'Nantes',NULL,'44000','France',1370,21000.00),
65 (112,'Signal Gift Stores','King','Jean','7025551838','8489 Strong St.',NULL,'Las Vegas','NV','83030','USA',1166,71800.00),
66 (114,'Australian Collectors, Co.','Ferguson','Peter','03 9520 4555','636 St Kilda Road','Level 3','Melbourne','Victoria','3004','Australia',1611,117300.00),
67 (125,'Havel & Zbyszek Co.','Piestrzeniewicz','Zbyszek ','(26) 642-7555','ul. Filtrowa 68',NULL,'Warszawa',NULL,'01-012','Poland',NULL,0.00),
68 (128,'Blauer See Auto, Co.','Kelitel','Roland','449 69 66 90 2555','Lyonenstr. 34',NULL,'Frankfurt',NULL,'60528','Germany',1504,59700.00),
69 (129,'Mini wheels Co.','Murphy','Julie','6505555787','5557 North Pendale Street',NULL,'San Francisco','CA','94217','USA',1165,64600.00),
70 (131,'Land of Toys Inc.','Lee','Kwai','2125557818','897 Long Airport Avenue',NULL,'NYC','NY','10022','USA',1323,114900.00),
71 (141,'Euro+ Shopping Channel','Freyre','Diego ','(91) 555 94 44','C/ Moralarzal, 86',NULL,'Madrid',NULL,'28034','Spain',1370,227600.00),
72 (144,'Volvo Model Replicas, Co.','Berglund','Christine ','0921-12 3555','Berguvsvägen 8',NULL,'Luleå',NULL,'S-958 22','Sweden',1504,53100.00);
```

Clear Format Get auto-saved query

Bind parameters

bookmark this SQL query:

Delimiter: ☐ Show this query here again ☐ Retain query box ☐ Rollback when finished ☒ Enable foreign key checks Go

Select the **sample_db** database after importing

Server: 127.0.0.1 Database: sample_db

Structure SQL Search Query Export Import Operations Privileges Routines Events Trigger

Filters

Containing the word:

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> customers	Browse Structure Search Insert Empty Drop	3	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> customers_1	Browse Structure Search Insert Empty Drop	6	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> customers_2	Browse Structure Search Insert Empty Drop	9	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> orders	Browse Structure Search Insert Empty Drop	3	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> students	Browse Structure Search Insert Empty Drop	4	InnoDB	utf8mb4_general_ci	16.0 KiB	-
5 tables	Sum	25	InnoDB	utf8mb4_general_ci	80.0 KiB	0 B

2. List all the tables available in sample_db

SHOW TABLES;



3. Display all the records from customers_1

SELECT * FROM customers_1;

4. Display all the records from customers_2

SELECT * FROM customers_2;

5. Combine customers_1 and customers_2 tables

**SELECT * FROM customers_1
UNION
SELECT * FROM customers_2;**

6. Combine customers_1 and customers_2 tables; also display duplicate records if available

**SELECT * FROM customers_1
UNION ALL
SELECT * FROM customers_2;**

7. Display common records from the customers_1 and customers_2

```
SELECT * FROM customers_1  
INTERSECT  
SELECT * FROM customers_2;
```

8. Select Customer names from both table (customers_1 and customers_2)

```
SELECT customerName FROM customers_1  
UNION  
SELECT customerName FROM customers_2;
```

9. Create View to display all the records from customers_1 and customers_2

```
CREATE VIEW display_all_record as  
SELECT * FROM customers_1  
UNION  
SELECT * FROM customers_2;
```

10. Create View to display common records from customers_1 and customers_2

```
CREATE VIEW display_common_record as  
SELECT * FROM customers_1  
INTERSECT  
SELECT * FROM customers_2;
```