

EXPERIMENT NO.5 : AGGREGATE FUNCTIONS

1.List total loan.

Command: `SELECT SUM (AMOUNT) FROM borrow;`

The screenshot shows the phpMyAdmin interface for a MySQL database named 'dbmslab'. The left sidebar lists various databases and tables, including 'borrow' which is currently selected. The main panel displays the results of the SQL query `SELECT SUM(AMOUNT) FROM borrow`. The result is shown in a table with one row, labeled 'SUM(AMOUNT)' and containing the value '22000.00'. Below the result table is a 'Query results operations' section with options like Print view, Export, and Create view.

2.List total deposit

Command: `SELECT SUM (AMOUNT) FROM deposit;`

The screenshot shows the phpMyAdmin interface for the dbmslab database. The left sidebar lists various databases and tables, including db, dbmslab, New, borrow, branch, customer, deposit, emp, stud, election, exempl, ims19, info, information_schema, lab, mcasamplep, mydata, mysql, performance_schema, pharmacy, phpmyadmin, and store. The current table selected is deposit. The main panel displays a SQL query: "SELECT sum(AMOUNT)FROM deposit". The results show a single row with the value 24200.00 under the column "sum(AMOUNT)". Below the results, there are options to print, export, or display a chart. The status bar at the bottom indicates it's 7:50 PM on 4/30/2021.

3. List total loan taken from KAROLBAGH branch

Command: `SELECT MAX(AMOUNT) FROM BORROW WHERE BNAME = 'KAROLBAGH' ;`

The screenshot shows the phpMyAdmin interface for the dbmslab database. The left sidebar lists various databases and tables, including db, dbmslab, New, aitajmer, cdcol, db, dbmslab, election, exempl, ims19, info, information_schema, lab, mcasamplep, mydata, mysql, performance_schema, pharmacy, phpmyadmin, store, stud, test, test1, web, and webauth. The current table selected is BORROW. The main panel displays a SQL query: "SELECT MAX(AMOUNT) FROM BORROW WHERE BNAME = 'KAROLBAGH'". The results show a single row with the value NULL under the column "MAX(AMOUNT)". Below the results, there are options to print, export, or display a chart. The status bar at the bottom indicates it's 7:52 PM on 4/30/2021.

4. List total deposit of customers having account date later than 1-Jan-96

Command: `SELECT SUM(AMOUNT) from deposit where adate>'1995-03-01';`

The screenshot shows the phpMyAdmin interface. On the left, the database structure is visible with the 'deposit' table selected. In the main area, a query has been run: `SELECT SUM(AMOUNT) from deposit where adate>'1995-03-01';`. The result is displayed as a single row with the value `23200.00` under the heading `SUM(AMOUNT)`.

5. List total deposit of customers living in city NAGPUR.

Command: `SELECT SUM(D1.AMOUNT) FROM deposit D1 , customer C1 WHERE C1.city = 'NAGPUR' AND C1.cname = D1.cname;`

The screenshot shows the phpMyAdmin interface for a database named 'dbmslab'. The left sidebar lists various databases and tables, including 'deposit' which is currently selected. The main panel displays a query result for the following SQL statement:

```
SELECT SUM(D1.AMOUNT) FROM deposit D1 , customer C1 WHERE C1.city = 'NAGPUR' AND C1.cname = D1.cname
```

The result shows a single row with the value 4200.00 under the heading 'SUM(D1.AMOUNT)'. Below the result, there are options to 'Print view', 'Export', 'Display chart', and 'Create view'. A status bar at the bottom right indicates the time is 7:54 PM on 4/30/2021.

6. List maximum deposit of customer living in Bombay.

**Command: SELECT MAX(D1.AMOUNT) FROM deposit D1 , customer C1 WHERE C1.city = 'Bombay'
AND C1.cname = D1.cname;**

The screenshot shows the phpMyAdmin interface for a database named 'dbmslab'. The left sidebar lists various databases and tables, including 'deposit' which is currently selected. The main panel displays a query result for the following SQL statement:

```
SELECT MAX(D1.AMOUNT) FROM deposit D1 , customer C1 WHERE C1.city = 'Bombay' AND C1.cname = D1.cname
```

The result shows a single row with the value 5000.00 under the heading 'MAX(D1.AMOUNT)'. Below the result, there are options to 'Print view', 'Export', 'Display chart', and 'Create view'. A status bar at the bottom right indicates the time is 7:57 PM on 4/30/2021.

7.List total deposit of customer having branch in BOMBAY

Command: `SELECT SUM (AMOUNT) from deposit,BRANCH where city='BOMBAY';`

The screenshot shows the phpMyAdmin interface for a MySQL database named 'dbmslab'. The left sidebar lists various databases and tables, including 'deposit' and 'branch'. The main panel displays the results of a SQL query: `SELECT SUM(AMOUNT) from deposit,BRANCH where city='BOMBAY'`. The result is a single row with the value `48400.00` under the heading `SUM(AMOUNT)`. Below the result, there are options to print, export, or display a chart. A message at the top indicates that the current selection does not contain a unique column, so grid edit, checkbox, and copy/delete features are unavailable.

8.Count total number of branch cities

Command: `SELECT COUNT(DISTINCT (city)) FROM branch ;`

The screenshot shows the phpMyAdmin interface for a MySQL database named 'dbmslab'. The left sidebar lists various databases and tables, including 'branch'. The main panel displays the results of a SQL query: `SELECT COUNT(DISTINCT (city)) FROM branch`. The result is a single row with the value `4` under the heading `COUNT(DISTINCT (city))`. Below the result, there are options to print, export, or display a chart. A message at the top indicates that the current selection does not contain a unique column, so grid edit, checkbox, and copy/delete features are unavailable. A note at the bottom right says 'Activate Windows'.

9.Count total number of customers cities

Command: SELECT count(city) from customer;

The screenshot shows the phpMyAdmin interface. The left sidebar lists databases and tables, with 'customer' selected. The main area shows a successful execution of the query 'Select count(city) from customer', which returned the result '10'. Below the results, there are options for 'Query results operations' like Print view, Export, and Create view.

10.Give branch names and branch wise deposit

Command: SELECT bname , SUM(AMOUNT) FROM deposit GROUP BY bname;

The screenshot shows the phpMyAdmin interface. The left sidebar lists databases and tables, with 'deposit' selected. The main area shows the execution of the query 'SELECT bname , SUM(AMOUNT) FROM deposit GROUP BY bname', which returned the following results:

bname	SUM(AMOUNT)
ANDHERI	2000.00
ANJNI	500.00
CHANDNI	1200.00
KAROLBAGH	3500.00
MG ROAD	3000.00
NEHRU PLACE	5000.00
POWAI	7000.00
VIRAR	1000.00
VRCE	1000.00

11. Give city wise name and branch wise deposit

Command: `SELECT C1.city , SUM(D1.AMOUNT) FROM customer C1 , deposit D1 WHERE D1.cname = C1 cname GROUP BY C1.city;`

The screenshot shows the phpMyAdmin interface for a database named 'dbmslab'. The left sidebar lists various databases and tables, including 'customer' and 'deposit'. The main area displays the results of a SQL query:

```
SELECT C1.city , SUM(D1.AMOUNT) FROM customer C1 , deposit D1 WHERE D1.cname = C1 cname GROUP BY C1.city
```

The results table shows the following data:

city	SUM(D1.AMOUNT)
Baroda	3500.00
Bombay	6000.00
calcutta	1000.00
Delhi	500.00
Nagpur	4200.00

12. Give the branch wise loan of customer living in NAGPUR.

Command: `SELECT bname , SUM(AMOUNT) FROM borrow,customer WHERE city ='NAGPUR' GROUP BY bname;`

The screenshot shows the phpMyAdmin interface for a database named 'dbmslab'. The left sidebar lists various databases and tables, including 'borrow' and 'customer'. The main area displays the results of a SQL query:

```
SELECT bname , SUM(AMOUNT) FROM borrow,customer WHERE city ='NAGPUR' GROUP BY bname
```

The results table shows the following data:

bname	SUM(AMOUNT)
AJNI	10000.00
ANDHERI	4000.00
DHARAMPETH	6000.00
NEHRU PALACE	6000.00
VIRAR	16000.00
VRCE	2000.00

13.Count total number of customers

Command: `SELECT count(cname) from customer;`

The screenshot shows the phpMyAdmin interface. On the left, the database structure is visible with the 'customer' table selected. In the main area, a query is being run:

```
SELECT count(cname) from customer
```

The result shows a single row with the value 10. Below the results, there are various operations like Print view, Export, and Create view.

14.Count total number of depositors branch wise

Command: `SELECT bname, count(*) from deposit, customer where deposit.cname = customer.cname group by bname;`

The screenshot shows the phpMyAdmin interface. On the left, the database structure is visible with the 'deposit' table selected. In the main area, a query is being run:

```
SELECT bname, count(*) from deposit, customer where deposit.cname = customer.cname group by bname
```

The result shows a table with the following data:

bname	count(*)
ANJNI	1
CHANDNI	1
KAROLBAGH	1
MG ROAD	1
NEHRU PLACE	1
VIRAR	1
VRCE	1

Below the table, there are options to Show all, Number of rows, Filter rows, and Search this table.

15.Count total number of depositors branch wise

Command: `SELECT BName, count(*) from DEPOSIT, CUSTOMER where deposit.CNAME = CUSTOMER.CNAME group by BNAME;`

The screenshot shows the phpMyAdmin interface for the dbmslab database. The left sidebar lists various databases and tables. The main area is titled 'Table: DEPOSIT' and contains a SQL query and its results.

SQL Query:

```
SELECT BName, count(*) from DEPOSIT, CUSTOMER where deposit.CNAME = CUSTOMER.CNAME group by BNAME
```

Query Results:

BName	count(*)
ANJLI	1
CHANDNI	1
KAROLBAGH	1
MG ROAD	1
NEHRU PLACE	1
VIRAR	1
VRCE	1

16.Give maximum loan from branch VRCE

Command: `SELECT MAX(AMOUNT) FROM BORROW WHERE BNAME ='VRCE';`

The screenshot shows the phpMyAdmin interface for the dbmslab database. The left sidebar lists various databases and tables. The main area is titled 'Table: BORROW' and contains a SQL query and its results.

SQL Query:

```
SELECT MAX(AMOUNT) FROM BORROW WHERE BNAME ='VRCE'
```

Query Results:

MAX(AMOUNT)
1000.00

17. Give the number of customers who are depositors as well as borrowers

Command: `SELECT COUNT(DISTINCT (CNAME)) FROM CUSTOMER WHERE CNAME IN ((SELECT CNAME FROM DEPOSIT) INTERSECT (SELECT CNAME FROM BORROW));`

+ Options

`COUNT(DISTINCT (CNAME))`

6

EXPERIMENT NO.6 : SET OPERATIONS

1. List all the customers who are depositors but not borrowers.

Command: `SELECT CNAME FROM DEPOSIT Except SELECT CNAME FROM BORROW;`

2. List all the customers who are both depositors and borrowers

Command: `SELECT CNAME FROM DEPOSIT UNION (SELECT CNAME FROM BORROW);`

The screenshot shows the phpMyAdmin interface with the following details:

- Left Panel:** Shows a tree view of databases and tables. The 'dbmslab' database is selected, and the 'DEPOSIT' table is shown under it.
- Top Bar:** Shows the URL as `localhost/phpmyadmin/tbl_sql.php?db=dbmslab&table=deposit&server=1&target=&token=57bc906df5df4f716a20d48fd9eadb0#PMAURL-76:db_sql`.
- Toolbar:** Includes buttons for Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations, Tracking, and Triggers.
- Result Area:** Displays the result of the query `SELECT CNAME FROM DEPOSIT UNION (SELECT CNAME FROM BORROW)`. The results are:

CNAME
ANIL
SUNIL
MEHUL
MADHURI
PRAMOD
SANDIP
SHIVANI
KRANTI
MINU
- Bottom Status:** Shows 'Activate Windows' with a link to 'Go to Settings to activate Windows.'
- Taskbar:** Shows the Windows taskbar with various pinned icons like File Explorer, Mail, Task View, and Edge.

3. List all the depositors having deposit in all the branches where Sunil is having Account

Command: SELECT D1.CNAME FROM DEPOSIT D1 WHERE D1.BNAME IN (SELECT D2.BNAME FROM DEPOSIT D2 WHERE D2.CNAME = 'SUNIL');

The screenshot shows the phpMyAdmin interface. On the left, the database structure is visible with various schemas and tables listed. The main area is titled 'DEPOSIT' and contains a query results table. The query executed was:

```
SELECT D1.CNAME FROM DEPOSIT D1 WHERE D1.BNAME IN (SELECT D2.BNAME FROM DEPOSIT D2 WHERE D2.CNAME = 'SUNIL' )
```

The results table shows one row with the value 'SUNIL' under the 'CNAME' column. Below the table, there are options for 'Query results operations' such as Print view, Export, Display chart, and Create view.

4. List all the customers living in city NAGPUR and having branch city BOMBAY or DELHI

Command: SELECT C1.CNAME FROM CUSTOMER C1,DEPOSIT D1, BRANCH B1 WHERE C1.CITY = 'NAGPUR' AND C1.CNAME = D1.CNAME AND D1.BNAME = B1.BNAME AND B1.CITY IN ('BOMBAY','DELHI');

The screenshot shows the phpMyAdmin interface for a MySQL database named 'dbmslab'. The current table is 'CUSTOMER'. A query has been run:

```
SELECT C1.CNAME FROM CUSTOMER C1,DEPOSIT D1, BRANCH B1 WHERE C1.CITY = 'NAGPUR' AND C1.CNAME = D1.CNAME AND D1.BNAME = B1.BNAME AND B1.CITY IN ('BOMBAY','DELHI')
```

The results show two rows: 'Madhuri' and 'Pramod'. The interface includes a sidebar with databases like 'dbmslab', 'election', 'exmpl', 'ims19', 'info', 'information_schema', 'lab', 'mcasamplep', 'mydata', 'mysql', 'performance_schema', 'pharmacy', 'phpmyadmin', 'store', 'student', 'test', 'test1', and 'web'. The bottom status bar shows the date and time as 8:23 PM 4/30/2021.

5. List all the depositors living in city NAGPUR

Command: SELECT Distinct(CUSTOMER.CNAME) from CUSTOMER,DEPOSIT WHERE City='NAGPUR';

The screenshot shows the phpMyAdmin interface for a MySQL database named 'dbmslab'. The current table is 'CUSTOMER'. A query has been run:

```
SELECT Distinct(CUSTOMER.CNAME) from CUSTOMER,DEPOSIT WHERE City='NAGPUR'
```

The results show two distinct rows: 'Madhuri' and 'Pramod'. The interface includes a sidebar with databases like 'dbmslab', 'election', 'exmpl', 'ims19', 'info', 'information_schema', 'lab', 'mcasamplep', 'mydata', 'mysql', 'performance_schema', 'pharmacy', 'phpmyadmin', 'store', 'student', 'test', 'test1', and 'web'. The bottom status bar shows the date and time as 8:24 PM 4/30/2021.

6. List all the depositors living in the city NAGPUR and having branch in city

BOMBAY

Command: SELECT C1.CNAME FROM CUSTOMER C1,DEPOSIT D1, BRANCH B1 WHERE C1.CITY = 'NAGPUR' AND C1.CNAME = D1.CNAME AND D1.BNAME = B1.BNAME AND B1.CITY IN ('BOMBAY');

The screenshot shows the phpMyAdmin interface on a Windows desktop. The left sidebar lists databases: New, aitajmer, cdcol, db, dbmslab, election, exempl, ims19, info, information_schema, lab, mcasamplep, mydata, mysql, performance_schema, pharmacy, phpmyadmin, store, studet, test, test1, web. The main area shows a query window with the following SQL code:

```
SELECT C1.CNAME FROM CUSTOMER C1,DEPOSIT D1, BRANCH B1 WHERE C1.CITY = 'NAGPUR' AND C1.CNAME = D1.CNAME AND D1.BNAME = B1.BNAME AND B1.CITY IN ('BOMBAY')
```

Below the query, there are several buttons: Profiling [Inline], Edit, Explain SQL, Create PHP Code, Refresh. A message at the top says "MySQL returned an empty result set (i.e. zero rows). (Query took 0.0019 seconds.)". On the right, there's an "Activate Windows" message: "Go to Settings to activate Windows." The bottom status bar shows the date and time: 4/30/2021 8:25 PM.

7. List the branch cities of Anil and Sunil

Command: SELECT B1.CITY FROM DEPOSIT D1, BRANCH B1 WHERE D1.BNAME = B1.BNAME AND D1.CNAME IN ('SUNIL', 'ANIL');

The screenshot shows the phpMyAdmin interface for a database named 'dbmslab'. The left sidebar lists various databases and tables. The current table is 'DEPOSIT'. A query has been run:

```
SELECT B1.CITY FROM DEPOSIT D1, BRANCH B1 WHERE D1.BNAME = B1.BNAME AND D1.CNAME IN ('SUNIL', 'ANIL')
```

The results show one row: 'nagpur'.

8. List all the cities where branches of Anil and Sunil are located

Command: `SELECT B1.CITY FROM BRANCH B1 WHERE B1.BNAME IN (SELECT D1.BNAME FROM DEPOSIT D1 WHERE D1.CNAME IN ('ANIL','SUNIL'));`

The screenshot shows the phpMyAdmin interface for a database named 'dbmslab'. The current table is 'BRANCH'. A query has been run:

```
SELECT B1.CITY FROM BRANCH B1 WHERE B1.BNAME IN (SELECT D1.BNAME FROM DEPOSIT D1 WHERE D1.CNAME IN ('ANIL', 'SUNIL'))
```

The results show one row: 'nagpur'.

EXPERIMENT NO.7 : JOIN OR CARTESIAN PRODUCT

1. Give name of customers having living city BOMBAY and branch city NAGPUR.

Command: `SELECT D1.CNAME,D1.BNAME,C1.CNAME,C1.CITY,B1.CITY,B1.BNAME FROM DEPOSIT D1,CUSTOMER C1,BRANCH B1 WHERE C1.CITY = 'BOMBAY' AND B1.CITY = 'NAGPUR' AND D1.CNAME = C1.CNAME AND D1.BNAME = B1.BNAME;`

The screenshot shows the phpMyAdmin interface for a database named 'dbmslab'. The left sidebar lists various databases and tables. The main area displays a query result for a SELECT statement:

```
SELECT D1.CNAME,D1.BNAME,C1.CNAME,C1.CITY,B1.CITY,B1.BNAME FROM DEPOSIT D1,CUSTOMER C1,BRANCH B1 WHERE C1.CITY = 'BOMBAY' AND B1.CITY = 'NAGPUR' AND D1.CNAME = C1.CNAME AND D1.BNAME = B1.BNAME
```

The result message indicates: "MySQL returned an empty result set (i.e. zero rows). (Query took 0.0020 seconds.)". Below the results, there are links for Profiling, Inline, Edit, Explain SQL, Create PHP Code, and Refresh.

- Give names of customers having the same living city as their branch city

Command: `SELECT distinct(customer.CNAME), BRANCH.CITY FROM BRANCH, customer WHERE BRANCH.city = customer.city;`

The screenshot shows the phpMyAdmin interface for a database named 'dbmslab'. The left sidebar lists various databases and tables. The main area displays a query result for a SELECT statement:

```
SELECT distinct(customer.CNAME), BRANCH.CITY FROM BRANCH, customer WHERE BRANCH.city = customer.city
```

The result message indicates: "Showing rows 0 - 5 (6 total, Query took 0.0018 seconds.)". Below the results, there are links for Profiling, Inline, Edit, Explain SQL, Create PHP Code, and Refresh.

CNAME	CITY
kranti	bombay
Madhuri	nagpur
naren	bombay
Pramod	nagpur
Shivani	bombay
Sunil	delhi

- Give names of customers who are borrowers as well as depositors and having city NAGPUR.

Command: `SELECT C1.CNAME FROM CUSTOMER C1,DEPOSIT D1,BORROW B1 WHERE C1.CITY='NAGPUR' AND C1.CNAME=D1.CNAME AND D1.CNAME = B1.CNAME;`

The screenshot shows the phpMyAdmin interface for a database named 'dbmslab'. The left sidebar lists various databases and tables. The 'CUSTOMER' table is selected under the 'dbmslab' database. The main area displays the results of a query: 'SELECT C1.CNAME FROM CUSTOMER C1,DEPOSIT D1,BORROW B1 WHERE C1.CITY='NAGPUR' AND C1.CNAME=D1.CNAME AND D1.CNAME = B1.CNAME'. The results show three rows: 'CNAME' (Madhuri, Pramod). Below the results, there are options for 'Query results operations' including Print view, Export, Display chart, and Create view.

4. Give names of borrowers having deposit amount greater than 1000 and loan amount greater than 2000.

Command: `SELECT BR1.CNAME, BR1.AMOUNT, D1.CNAME, D1.AMOUNT FROM BORROW
BR1,DEPOSIT D1 WHERE D1.CNAME = BR1.CNAME AND D1.AMOUNT > 1000 AND BR1.AMOUNT >
2000;`

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localhost/phpmyadmin/tbl_sql.php?db=dbmslab&table=deposit&server=1&target=&token=57bc906df5df4f716a20d48fd9eadb0#PMAURL-123:tbl_sc

phpMyAdmin

Server: 127.0.0.1 » Database: dbmslab » Table: BORROW

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Show query box

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

Showing rows 0 - 2 (3 total, Query took 0.0020 seconds.)

```
SELECT BR1.CNAME, BR1.AMOUNT, D1.CNAME, D1.AMOUNT FROM BORROW BR1,DEPOSIT D1 WHERE D1.CNAME = BR1.CNAME AND D1.AMOUNT > 1000 AND BR1.AMOUNT > 2000
```

Profiling [Inline] [Edit] [Explain SQL] [Create PHP Code] [Refresh]

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

+ Options

CNAME	AMOUNT	CNAME	AMOUNT
MEHUL	5000.00	MEHUL	3500.00
PRAMOD	8000.00	PRAMOD	3000.00
KRANTI	3000.00	KRANTI	5000.00

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

Query results operations

Activate Windows Go to Settings to activate Windows.

Console Print view (with full texts) Export Display chart Create view

5. Give names of depositors having the same branch as the branch of Sunil

Command: `SELECT D1.CNAME FROM DEPOSIT D1 WHERE D1.BNAME IN (SELECT D2.BNAME FROM DEPOSIT D2 WHERE D2.CNAME = 'SUNIL');`

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localhost/phpmyadmin/tbl_sql.php?db=dbmslab&table=deposit&server=1&target=&token=57bc906df5df4f716a20d48fd9eadb0#PMAURL-122:tbl_sc

phpMyAdmin

Server: 127.0.0.1 » Database: dbmslab » Table: DEPOSIT

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Show query box

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

Showing rows 0 - 0 (1 total, Query took 0.0020 seconds.)

```
SELECT D1.CNAME FROM DEPOSIT D1 WHERE D1.BNAME IN (SELECT D2.BNAME FROM DEPOSIT D2 WHERE D2.CNAME = 'SUNIL')
```

Profiling [Inline] [Edit] [Explain SQL] [Create PHP Code] [Refresh]

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

+ Options

CNAME
SUNIL

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

Query results operations

Print view Print view (with full texts) Export Display chart Create view

Activate Windows Go to Settings to activate Windows.

Console

6. Give names of borrowers having loan amount greater than the loan amount of Pramod

Command: SELECT BR1.CNAME,BR1.AMOUNT FROM BORROW BR1 WHERE BR1.AMOUNT > ALL (SELECT BR2.AMOUNT FROM BORROW BR2 WHERE BR2.CNAME = 'PRAMOD');

The screenshot shows the phpMyAdmin interface on a Windows desktop. The left sidebar lists databases: New, aitajmer, ccdcol, db, dbmslab, election, exmpl, ims19, info, information_schema, lab, mcasamplep, mydata, mysql, performance_schema, pharmacy, phpmyadmin, store, studet, test, test1, web. The main area shows a query window with the following content:

```
MySQL returned an empty result set (i.e. zero rows) (Query took 0.0018 seconds.)  
SELECT BR1.CNAME,BR1.AMOUNT FROM BORROW BR1 WHERE BR1.AMOUNT > ALL (SELECT BR2.AMOUNT FROM BORROW BR2 WHERE BR2.CNAME = 'PRAMOD')  
Profiling [ Inline ] [ Edit ] [ Explain SQL ] [ Create PHP Code ] [ Refresh ]
```

Below the query window, the status bar shows "Activate Windows Go to Settings to activate Windows." The taskbar at the bottom includes icons for File Explorer, Mail, Task View, Edge, File Explorer, and Google Chrome, along with system icons for battery, signal, and date/time (8:56 PM, 4/30/2021).

7. Give the name of the customer living in the city where branch of depositor Sunil is located.

**Command: SELECT C.CNAME FROM CUSTOMER C WHERE C.CITY IN (SELECT B.CITY FROM
BRANCH B WHERE B.BNAME IN (SELECT D.BNAME FROM DEPOSIT D WHERE
D.CNAME='SUNIL'));**

The screenshot shows the phpMyAdmin interface on a Windows desktop. The left sidebar lists databases: dbmslab, db, exempl, test, and web. The main panel shows the 'CUSTOMER' table from the 'dbmslab' database. A green message bar at the top says 'MySQL returned an empty result set (i.e. zero rows) (Query took 0.0022 seconds.)'. Below it is a SQL query window containing:

```
SELECT C.CNAME FROM CUSTOMER C WHERE C.CITY IN (SELECT B.CITY FROM BRANCH B WHERE B.BNAME IN (SELECT D.BNAME FROM DEPOSIT D WHERE D.CNAME='SUNIL'))
```

Below the query are buttons for Profiling, Inline, Explain SQL, Create PHP Code, and Refresh.

8. Give branch city and living city of Pramod

Command: `SELECT B1.CITY , C1.CITY FROM BRANCH B1,CUSTOMER C1, DEPOSIT D1 WHERE C1.CNAME = 'PRAMOD' AND C1.CNAME = D1.CNAME AND D1.BNAME = B1.BNAME;`

The screenshot shows the phpMyAdmin interface on a Windows desktop. The left sidebar lists databases: dbmslab, db, exempl, test, and web. The main panel shows the 'BRANCH' table from the 'dbmslab' database. A yellow warning message bar says 'Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.' Below it is a green message bar saying 'Showing rows 0 - 0 (1 total, Query took 0.0020 seconds.)'. The SQL query window contains:

```
SELECT B1.CITY , C1.CITY FROM BRANCH B1,CUSTOMER C1, DEPOSIT D1 WHERE C1.CNAME = 'PRAMOD' AND C1.CNAME = D1.CNAME AND D1.BNAME = B1.BNAME
```

Below the query are buttons for Profiling, Inline, Explain SQL, Create PHP Code, and Refresh. The results table shows one row:

CITY	CITY
banglore	Nagpur

9. Give branch city of Sunil and branch city of Anil

Command: SELECT B1.CITY FROM DEPOSIT D1, BRANCH B1 WHERE D1.BNAME = B1.BNAME

AND D1.CNAME IN ('SUNIL', 'ANIL');

The screenshot shows the phpMyAdmin interface. On the left, the database structure is visible with various schemas and tables listed. The main area displays a query result for the 'BRANCH' table. The query is:

```
SELECT B1.CITY , C1.CITY FROM BRANCH B1,CUSTOMER C1, DEPOSIT D1 WHERE C1.CNAME = 'PRAMOD' AND C1.CNAME = D1.CNAME AND D1.BNAME = B1.BNAME
```

The result table has two columns: CITY and CITY. The data is:

CITY	CITY
banglore	Nagpur

Below the table, there are options to print, export, or display a chart.

10. Give the living city of Anil and the living city of Sunil

Command: SELECT C1.CNAME, C1.CITY FROM CUSTOMER C1 WHERE C1.CNAME = 'ANIL' OR

C1.CNAME = 'SUNIL';

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localhost/phpmyadmin/tbl_sql.php?db=dbmslab&table=deposit&server=1&target=&token=57bc906df5df4f716a20d48ffd9eadb0#PMAURL-117:tbl_sc

phpMyAdmin

Recent | Favorites

New
altajmer
cdcol
db
dbmslab
election
exmpl
ims19
info
information_schema
lab
mcasamplep
mydata
mysql
performance_schema
pharmacy
phpmyadmin
store
studet
test
test1
web

Server: 127.0.0.1 » Database: dbmslab » Table: CUSTOMER

Browse | Structure | SQL | Search | Insert | Export | Import | Privileges | Operations | Tracking | Triggers

Show query box

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

Showing rows 0 - 1 (2 total, Query took 0.0016 seconds.)

SELECT C1.CNAME, C1.CITY FROM CUSTOMER C1 WHERE C1.CNAME = 'ANIL' OR C1.CNAME = 'SUNIL'

Profiling [Inline] [Edit] [Explain SQL] [Create PHP Code] [Refresh]

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

Sort by key: None

+ Options

CNAME	CITY
Anil	calcutta
Sunil	Delhi

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

Query results operations

Console | view | Print view (with full texts) | Export | Display chart | Create view

Activate Windows
Go to Settings to activate Windows.

8:50 PM 4/30/2021

The screenshot shows the phpMyAdmin interface for a MySQL database named 'dbmslab'. The left sidebar lists various databases and tables. The 'CUSTOMER' table is selected under the 'dbmslab' database. The main area displays the results of a SQL query: 'SELECT C1.CNAME, C1.CITY FROM CUSTOMER C1 WHERE C1.CNAME = 'ANIL' OR C1.CNAME = 'SUNIL''. The results show two rows: 'Anil' with 'calcutta' and 'Sunil' with 'Delhi'. A warning message at the top states, 'Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.' The bottom status bar shows the date and time as '4/30/2021 8:50 PM'.