

// The 3 Tables

The screenshot shows the phpMyAdmin interface with the 'parts' table selected in the 'supplier' database. The table structure is as follows:

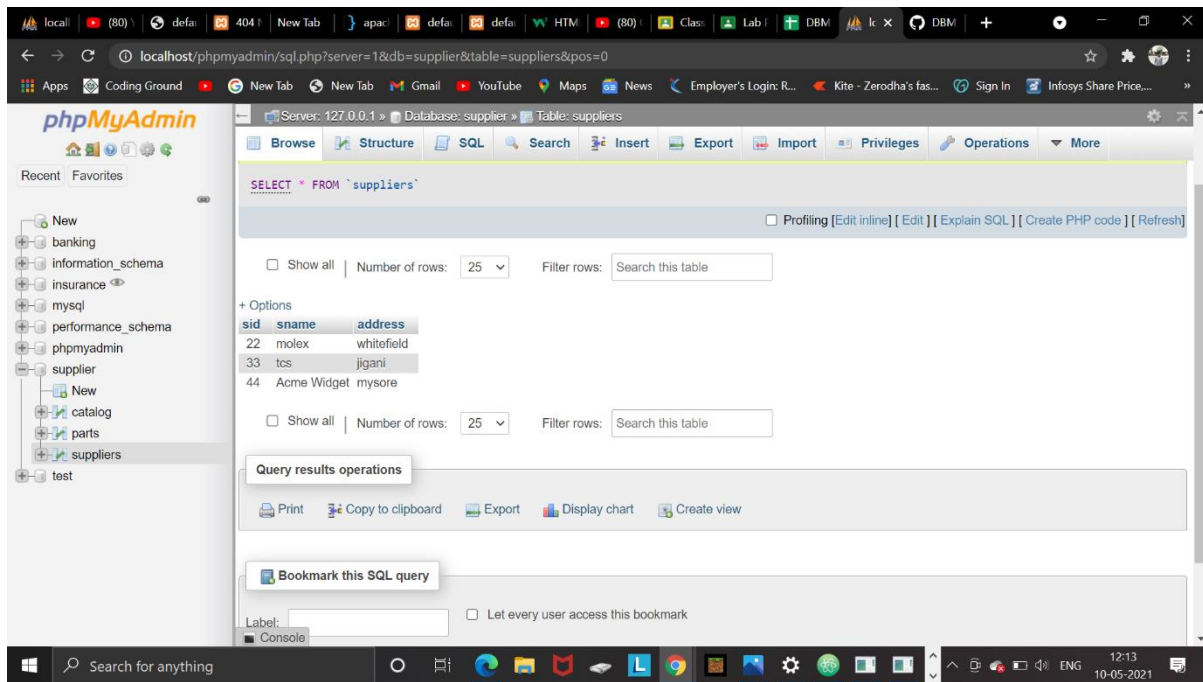
pid	pname	color
6	rotor	black
8	shaft	red
9	cable	red

The interface includes a left sidebar with a database tree, a top navigation bar with tabs like 'Browse', 'Structure', 'SQL', etc., and a main content area displaying the table data and query results. 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 screenshot shows the phpMyAdmin interface with the 'catalog' table selected in the 'supplier' database. The table structure is as follows:

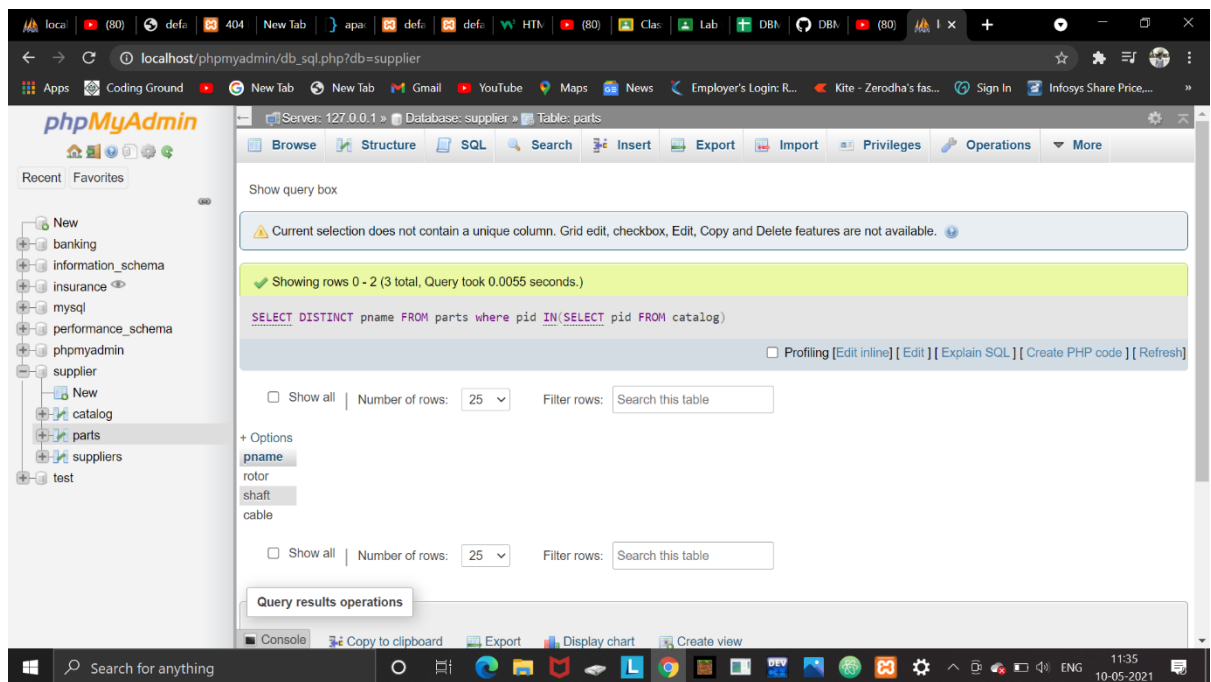
sid	pid	cost
22	6	22000
22	8	67000
22	9	89000
33	8	9000
33	9	870000
44	6	45900

The interface is similar to the previous screenshot, showing the 'catalog' table data and query results. The left sidebar and top navigation bar are also visible.

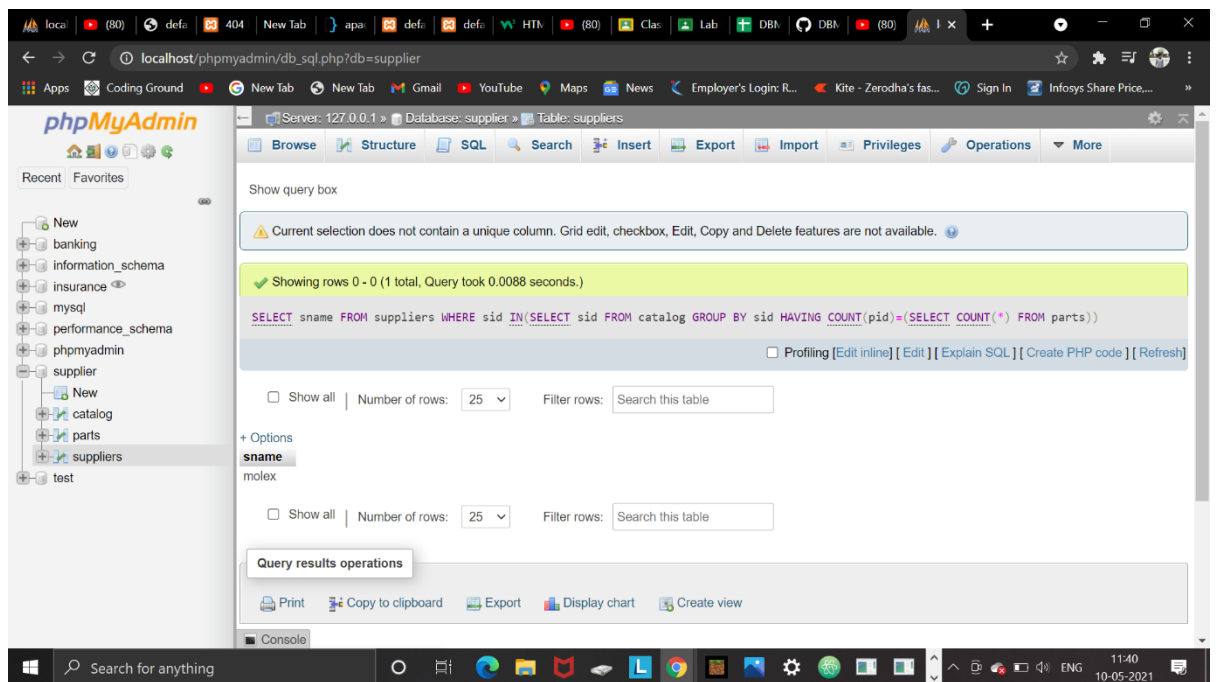


// THE QUERIES

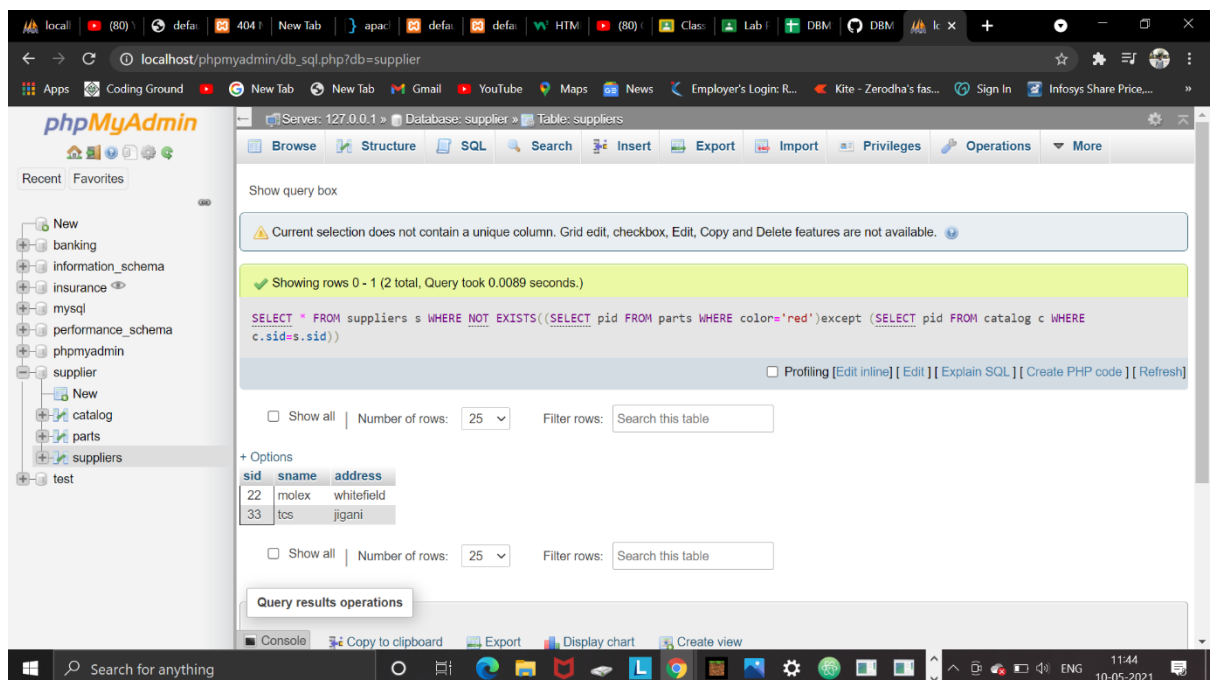
- 1) Find the pnames of parts for which there is some supplier.



- 2) Find the snames of suppliers who supply every part.



3) Find the snames of suppliers who supply every red part.



4) Find the pnames of parts supplied by Acme Widget Suppliers and by no one else.

✓ Showing rows 0 - 4 (5 total, Query took 0.0082 seconds.)

```
SELECT * FROM parts WHERE pid in (SELECT pid FROM catalog WHERE sid in (SELECT sid from suppliers WHERE sname='Acme Widget Supplier') EXCEPT (SELECT pid from catalog WHERE sid in (SELECT sid from suppliers WHERE sname<>'Acme Widget Supplier'))))
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

← T → pid pname color

- 5) Find the sids of suppliers who charge more for some part than the average cost of that part (averaged over all the suppliers who supply that part).

localhost/phpmyadmin/db_sql.php?db=supplier

Server: 127.0.0.1 » Database: supplier

Show query box

✓ Showing rows 0 - 2 (3 total, Query took 0.0087 seconds.)

```
SELECT pname,sid,cost FROM parts,catalog c WHERE parts.pid=c.pid AND cost>=(SELECT AVG(cost) FROM catalog c2 WHERE c.pid=c2.pid)
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

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

+ Options

pname	sid	cost
shaft	22	67000
cable	33	870000
rotor	44	45900

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

Query results operations

Print Copy to clipboard Export Display chart Create view

- 6) For each part, find the sname of the supplier who charges the most for that part.

localhost/phpmyadmin/db_sql.php?db=supplier

Server: 127.0.0.1 » Database: supplier

Structure SQL Search Query Export Import Operations Privileges Routines More

Show query box

Showing rows 0 - 2 (3 total, Query took 0.0062 seconds.)

```
SELECT * FROM suppliers s, parts p, catalog c WHERE p.pid=c.pid AND c.sid=s.sid AND cost IN (SELECT MAX(cost) FROM catalog c1 WHERE c1.pid=p.pid)
```

☐ Profiling [\[Edit inline\]](#) [\[Edit\]](#) [\[Explain SQL\]](#) [\[Create PHP code\]](#) [\[Refresh\]](#)

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

+ Options

sid	sname	address	pid	pname	color	sid	pid	cost
22	molex	whitefield	8	shaft	red	22	8	67000
33	tcs	jigani	9	cable	red	33	9	870000
44	Acme Widget	mysore	6	rotor	black	44	6	45900

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

Query results operations

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Console

7) Find the sids of suppliers who supply only red parts.

localhost/phpmyadmin/db_sql.php?db=supplier

Server: 127.0.0.1 » Database: supplier » Table: suppliers

Browse Structure SQL Search Insert Export Import Privileges Operations More

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 0.0058 seconds.)

```
SELECT * FROM suppliers s WHERE NOT EXISTS ((SELECT pid FROM catalog c WHERE c.sid=s.sid)except(SELECT pid FROM parts WHERE color='red'))
```

☐ Profiling [\[Edit inline\]](#) [\[Edit\]](#) [\[Explain SQL\]](#) [\[Create PHP code\]](#) [\[Refresh\]](#)

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

+ Options

sid	sname	address
33	tcs	jigani

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

Query results operations

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Console