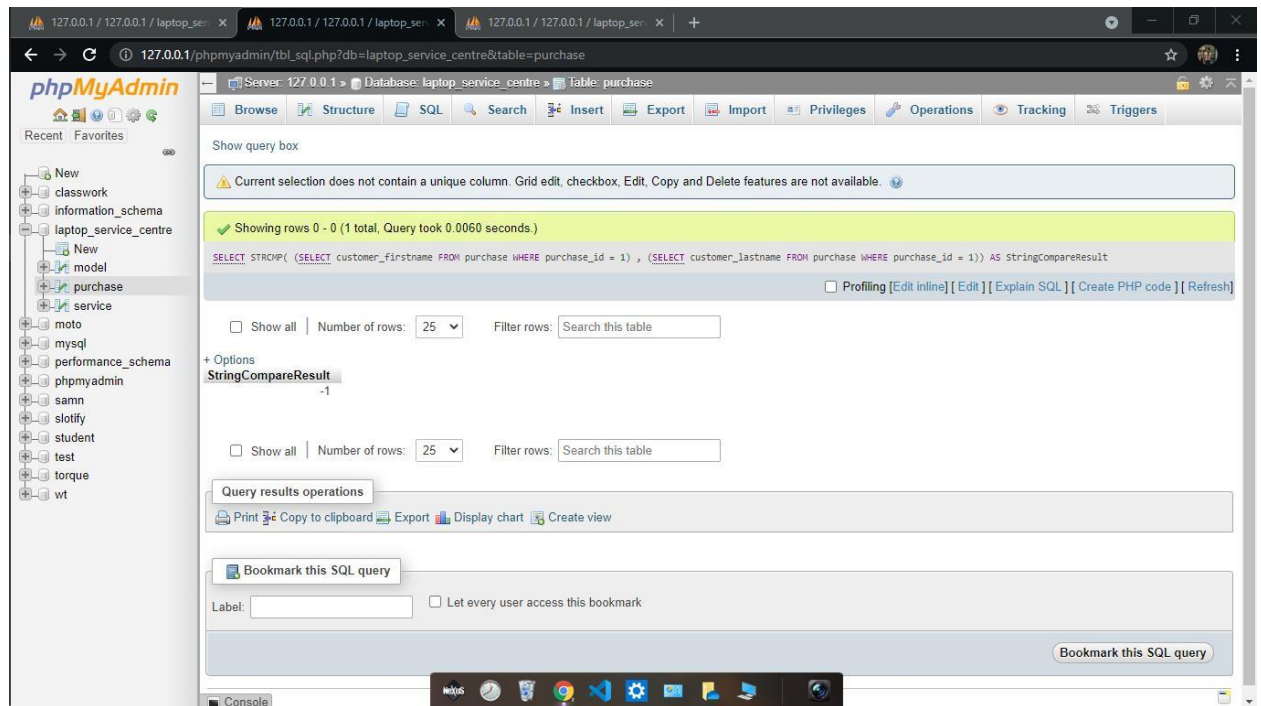


Database CAT2 Lab Exam:

1. Create Database laptop_service_centre;
2. CREATE TABLE `laptop_service_centre`.`model` (`model_id` INT NOT NULL AUTO_INCREMENT , `model_name` VARCHAR(30) NOT NULL , `series` VARCHAR(40) NOT NULL , `price` INT NOT NULL , `processor` VARCHAR(20) NOT NULL , `ram` INT NOT NULL , `storage` INT NOT NULL , PRIMARY KEY (`model_id`));
3. CREATE TABLE `laptop_service_centre`.`purchase` (`purchase_id` INT NOT NULL AUTO_INCREMENT , `model_id` INT NOT NULL , `customer_firstname` VARCHAR(30) NOT NULL , `customer_lastname` VARCHAR(30) NOT NULL , `contact_no` VARCHAR(13) NOT NULL , `purchase_price` INT NOT NULL , `purchase_date` DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP , `years_of_warranty` TINYINT NOT NULL , `international_warranty` VARCHAR(3) NOT NULL , PRIMARY KEY (`purchase_id`)) ENGINE = InnoDB;
4. ALTER TABLE `purchase` ADD CONSTRAINT `model_id` FOREIGN KEY (`model_id`) REFERENCES `model` (`model_id`) ON DELETE RESTRICT ON UPDATE RESTRICT;
5. SELECT DATE(purchase_date) FROM purchase WHERE purchase_id = 4
6. SELECT EXTRACT(WEEK FROM "2021-09-28 12:02:18");
7. SELECT CEIL((SELECT estimated_cost FROM service WHERE service_id = 2))
8. SELECT FLOOR((SELECT estimated_cost FROM service WHERE service_id = 2))
9. SELECT SQRT((SELECT estimated_cost FROM service WHERE service_id = 2))
10. SELECT CHAR_LENGTH((SELECT customer_firstname FROM purchase WHERE purchase_id = 1)) AS LengthOfString;
11. SELECT STRCMP((SELECT customer_firstname FROM purchase WHERE purchase_id = 1) , (SELECT customer_lastname FROM purchase WHERE purchase_id = 1)) AS StringCompareResult;
12. SELECT CONCAT((SELECT customer_firstname FROM purchase WHERE purchase_id = 1) , (SELECT customer_lastname FROM purchase WHERE purchase_id = 1)) AS Full_Name

13. CREATE VIEW call_center_customer_support
AS SELECT service.service_id, service.estimated_cost, service.estimated_return_date,
purchase.purchase_id, model.model_id
FROM purchase, model, service
WHERE purchase.purchase_id = service.purchase_id;
14. CREATE INDEX fastest_service_cust
ON purchase (customer_firstname);
15. SHOW INDEX FROM laptop_service_centre.purchase;
16. ALTER TABLE purchase DROP INDEX fastest_service_cust;



127.0.0.1 / 127.0.0.1 / laptop_ser... x 127.0.0.1 / 127.0.0.1 / laptop_ser... x 127.0.0.1 / 127.0.0.1 / laptop_ser... x

127.0.0.1/phpmyadmin/tbl_sql.php?db=laptop_service_centre&table=service

Server: 127.0.0.1 Database: laptop_service_centre Table: service

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 0.0034 seconds.)

```
SELECT SQRT((SELECT estimated_cost FROM service WHERE service_id = 2))
```

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

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

+ Options

```
SQRT((SELECT estimated_cost FROM service WHERE service_id = 2))
```

77.46341071757685

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

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Label: Let every user access this bookmark

Bookmark this SQL query

Console

127.0.0.1 / 127.0.0.1 / laptop_ser... x

127.0.0.1/phpmyadmin/tbl_sql.php?db=laptop_service_centre&table=service

Server: 127.0.0.1 Database: laptop_service_centre Table: service

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

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

	service_id	estimated_cost	estimated_return_date	purchase_id	contact_no
<input type="checkbox"/> Edit Copy Delete	1	2000	2021-09-29	1	8758339931
<input type="checkbox"/> Edit Copy Delete	2	6000.58	2021-09-29	3	8758339931
<input type="checkbox"/> Edit Copy Delete	3	2000	2021-09-29	2	6359217930
<input type="checkbox"/> Edit Copy Delete	4	8000.6589	2021-09-29	4	8758339931
<input type="checkbox"/> Edit Copy Delete	5	20000	2021-09-29	4	8758339931

Check all With selected: Edit Copy Delete Export

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

Query results operations

Print Copy to clipboard Export Display chart Create view

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Bookmark this SQL query

Console

127.0.0.1 / 127.0.0.1 / laptop_ser- x +

127.0.0.1/phpmyadmin/sql.php?server=1&db=laptop_service_centre&table=model&pos=0

Server: 127.0.0.1 Database: laptop_service_centre Table: model

Showing rows 0 - 4 (5 total, Query took 0.1009 seconds.)

SELECT * FROM `model`

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

	model_id	model_name	series	price	processor	ram	storage
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	Inspiron	3567	29000	i3	4	1000
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	Latitude	37	39000	i5	8	1000
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	Latitude	3958	25000	i5	8	500
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	XPS	13	125000	i5	8	1000
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	XPS	15	130000	i7	16	1000

Check all With selected: Edit Copy Delete Export

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

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Label: Let every user access this bookmark

Console

127.0.0.1 / 127.0.0.1 / laptop_ser- x +

127.0.0.1/phpmyadmin/sql.php?server=1&db=laptop_service_centre&table=purchase&pos=0

Server: 127.0.0.1 Database: laptop_service_centre Table: purchase

Showing rows 0 - 4 (5 total, Query took 0.0026 seconds.)

SELECT * FROM `purchase`

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

	purchase_id	model_id	customer_firstname	customer_lastname	contact_no	purchase_price	purchase_date	years_of_warranty
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	1	Naishar	Shah	8758339931	28000	2021-09-28 12:02:18	1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	2	ashu	das	6359217930	35000	2021-09-28 12:03:08	1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	2	Mahek	Sukhadia	9979722075	36000	2021-09-28 12:04:00	1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	5	Naishar	Shah	8758339931	128000	2021-09-28 12:05:55	1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	4	Arihant	Sonetha	7990102728	120000	2021-09-28 12:05:55	1

Check all With selected: Edit Copy Delete Export

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

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Label: Let every user access this bookmark

Console

127.0.0.1 / 127.0.0.1 / laptop_ser... x 127.0.0.1 / 127.0.0.1 / laptop_ser... x 127.0.0.1 / 127.0.0.1 / laptop_ser... x +

127.0.0.1/phpmyadmin/tbl_sql.php?db=laptop_service_centre&table=purchase

Server: 127.0.0.1 Database: laptop_service_centre Table: purchase

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 0.0030 seconds.)

SELECT CHAR_LENGTH((SELECT customer_firstname FROM purchase WHERE purchase_id = 1)) AS LengthOfString

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

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

+ Options
LengthOfString

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

Query results operations
Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Label: Let every user access this bookmark

Bookmark this SQL query

Console

127.0.0.1 / 127.0.0.1 / laptop_ser... x 127.0.0.1 / 127.0.0.1 / laptop_ser... x 127.0.0.1 / 127.0.0.1 / laptop_ser... x 127.0.0.1 / 127.0.0.1 / laptop_ser... x +

127.0.0.1/phpmyadmin/db_sql.php?db=laptop_service_centre

Server: 127.0.0.1 Database: laptop_service_centre

Structure SQL Search Query Export Import Operations Privileges Routines Events Triggers More

Show query box

Your SQL query has been executed successfully.

SHOW INDEX FROM laptop_service_centre.purchase

Profiling [Edit inline] [Edit] [Create PHP code] [Refresh]

+ Options

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment
purchase	0	PRIMARY	1	purchase_id	A	5	NULL	NULL		BTREE		
purchase	1	model_id	1	model_id	A	5	NULL	NULL		BTREE		
purchase	1	fastest_service	1	purchase_id	A	5	NULL	NULL		BTREE		

Query results operations
Print Copy to clipboard Create view

Bookmark this SQL query

Label: Let every user access this bookmark

Bookmark this SQL query

Console

Browser 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 0.0036 seconds.)

```
SELECT FLOOR((SELECT estimated_cost FROM service WHERE service_id = 2))
```

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

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

+ Options

```
FLOOR((SELECT estimated_cost FROM service WHERE service_id = 2))
```

6000

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

Query results operations

Print Copy to clipboard Export Display chart Create view

Browser 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 0.0023 seconds.)

```
SELECT CEIL((SELECT estimated_cost FROM service WHERE service_id = 2))
```

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

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

+ Options

```
CEIL((SELECT estimated_cost FROM service WHERE service_id = 2))
```

6001

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

Query results operations

Print Copy to clipboard Export Display chart Create view

127.0.0.1 / 127.0.0.1 / laptop_ser... x 127.0.0.1 / 127.0.0.1 / laptop_ser... x +

127.0.0.1/phpmyadmin/tbl_sql.php?db=laptop_service_centre&table=purchase

Server: 127.0.0.1 Database: laptop_service_centre Table: purchase

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

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- laptop_service_centre
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 - service
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- performance_schema
- phpmyadmin
- samn
- slotify
- student
- test
- torque
- wt

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 0.0034 seconds.)

```
SELECT DATE(purchase_date) FROM purchase WHERE purchase_id = 4
```

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

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

+ Options
DATE(purchase_date)
2021-09-28

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

Query results operations

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Bookmark this SQL query

Console

127.0.0.1 / 127.0.0.1 / laptop_ser... x 127.0.0.1 / 127.0.0.1 / laptop_ser... x 127.0.0.1 / 127.0.0.1 / laptop_ser... x +

127.0.0.1/phpmyadmin/tbl_sql.php?db=laptop_service_centre&table=purchase

Server: 127.0.0.1 Database: laptop_service_centre Table: purchase

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

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- mysql
- performance_schema
- phpmyadmin
- samn
- slotify
- student
- test
- torque
- wt

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 0.0038 seconds.)

```
SELECT CONCAT( (SELECT customer_firstname FROM purchase WHERE purchase_id = 1) , (SELECT customer_lastname FROM purchase WHERE purchase_id = 1)) AS Full_name
```

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

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

+ Options
Full_name
NaisharShah

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

Query results operations

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Console

