

# PROGRAM 1

## Consider the following schema:

Consider the Insurance database given below. The primary keys are underlined and the data types are specified.

PERSON (driver-id #: String, name: String, address: String)

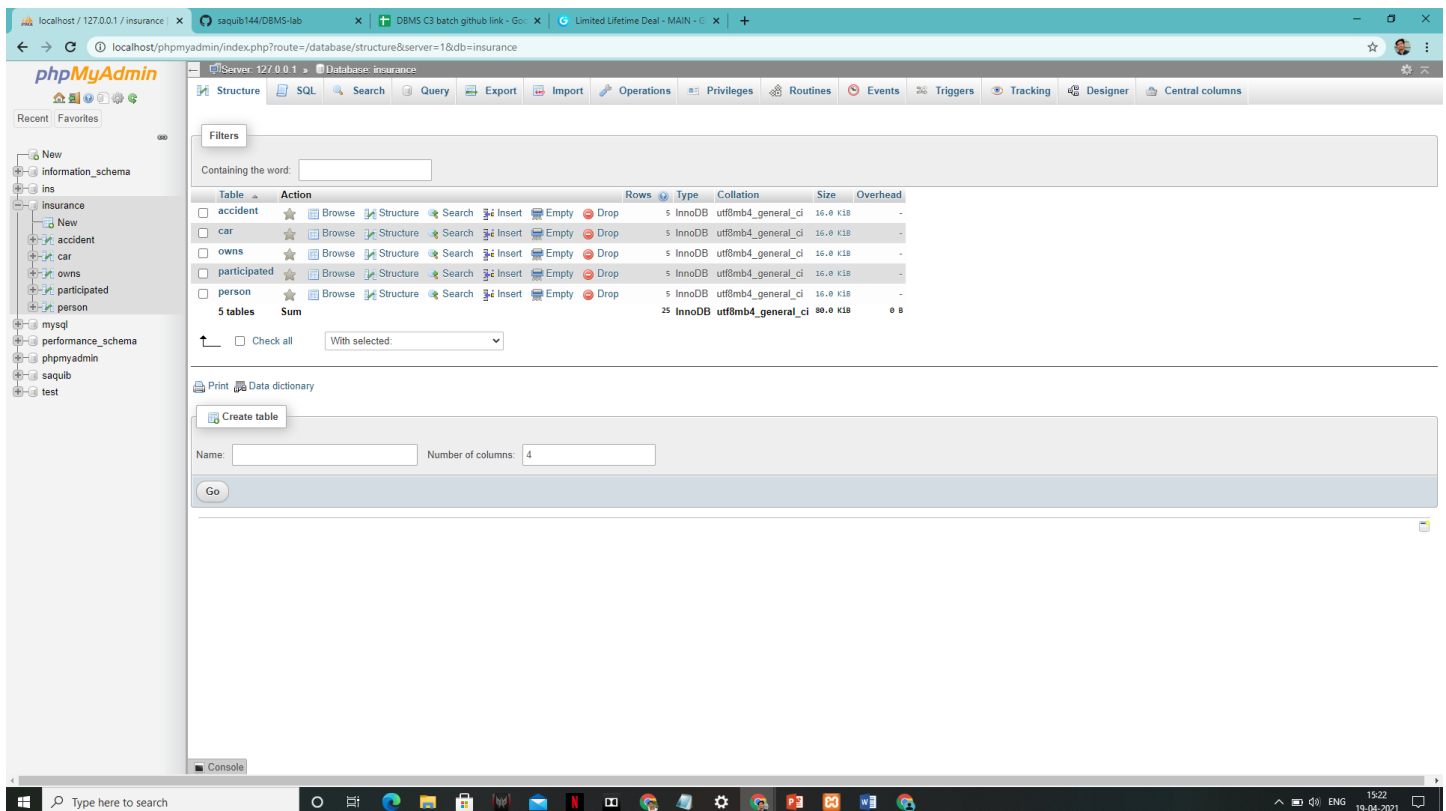
CAR (Regno: String, model: String, year: int)

ACCIDENT (report-number: int, date: date, location: String)

OWNS (driver-id #: String, Regno: String)

PARTICIPATED (driver-id: String, Regno: String, report-number: int, damage-amount: int)

1) Create the above tables y properly specifying the primary keys and the foreign keys.



2) Enter at least 5 tuples for each relation.

‘PERSON’ table:

localhost / 127.0.0.1 / insurance x saquib144/DBMS-lab x DBMS C3 batch github link - Go x Limited Lifetime Deal - MAIN - G x +

localhost/phpmyadmin/index.php?route=/sql&server=1&db=insurance&table=person&pos=0

phpMyAdmin

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Showing rows 0 - 4 (5 total, Query took 0.0010 seconds)

SELECT \* FROM `person`

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

				Driver_id	name	address
<input type="checkbox"/>	Edit	Copy	Delete	A01	AMAN	PUNJAB
<input type="checkbox"/>	Edit	Copy	Delete	A02	RAVI	DELHI
<input type="checkbox"/>	Edit	Copy	Delete	A03	KARAN	MUMBAI
<input type="checkbox"/>	Edit	Copy	Delete	A04	RAJESH	BENGALURU
<input type="checkbox"/>	Edit	Copy	Delete	A05	ROHAN	GUJARAT

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

Bookmark this SQL query

Console

Type here to search

15:25 19-04-2021

‘CAR’ table:

localhost / 127.0.0.1 / insurance x saquib144/DBMS-lab x DBMS C3 batch github link - Go x Limited Lifetime Deal - MAIN - G x +

localhost/phpmyadmin/index.php?route=/sql&server=1&db=insurance&table=car&pos=0

phpMyAdmin

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

Showing rows 0 - 4 (5 total, Query took 0.0010 seconds)

SELECT \* FROM `car`

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

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

+ Options

regno	model	year
01	suzuki	2005
02	toyota	2009
03	tata	2010
04	ford	2006
05	suzuki	2016

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

localhost/phpmyadmin/index.php?route=/sql&server=1&db=insurance&table=car&pos=0

Type here to search

15:24 19-04-2021

## ‘ACCIDENT’ table:

The screenshot shows the phpMyAdmin interface for the 'insurance' database. The 'accident' table is selected, and the 'Table' tab is active. The table contains 5 rows of data. The SQL query 'SELECT \* FROM `accident`' is shown, and the results are displayed in a table format. The table has columns: report\_number, date, and location. The data rows are:

report_number	date	location
10	2021-04-02	mumbai
11	2021-03-11	delhi
12	2021-03-26	bengaluru
13	2021-04-03	gujarat
14	2021-03-30	JP nagar

The interface also shows a sidebar with the database structure, a top navigation bar with various tools, and a bottom status bar with system information.

## ‘OWNS’ table:

localhost / 127.0.0.1 / insurance x saquib144/DBMS-lab x DBMS C3 batch github link - Go x Limited Lifetime Deal - MAIN - x +

localhost/phpmyadmin/index.php?route=/sql&server=1&db=insurance&table=owns&pos=0

phpMyAdmin

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Server: 127.0.0.1 > Database: insurance > Table: owns

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Showing rows 0 - 4 (5 total, Query took 0.0009 seconds)

SELECT \* FROM 'owns'

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

				Driver_id	regno
<input type="checkbox"/>	Edit	Copy	Delete	A01	01
<input type="checkbox"/>	Edit	Copy	Delete	A02	02
<input type="checkbox"/>	Edit	Copy	Delete	A03	03
<input type="checkbox"/>	Edit	Copy	Delete	A04	04
<input type="checkbox"/>	Edit	Copy	Delete	A05	05

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

Bookmark this SQL query

Console

## 'PARTICIPATED' table:

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localhost/phpmyadmin/index.php?route=/sql&server=1&db=insurance&table=participated&pos=0

phpMyAdmin

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  - person
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- test

Server: 127.0.0.1 > Database: insurance > Table: participated

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

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

Showing rows 0 - 4 (5 total, Query took 0.0010 seconds)

SELECT \* FROM 'participated'

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

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

Options

Driver_id	regno	report_number	damage_amount
A01	01	10	5000
A02	02	11	6000
A03	03	12	10000
A04	04	13	6500
A05	05	14	500

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

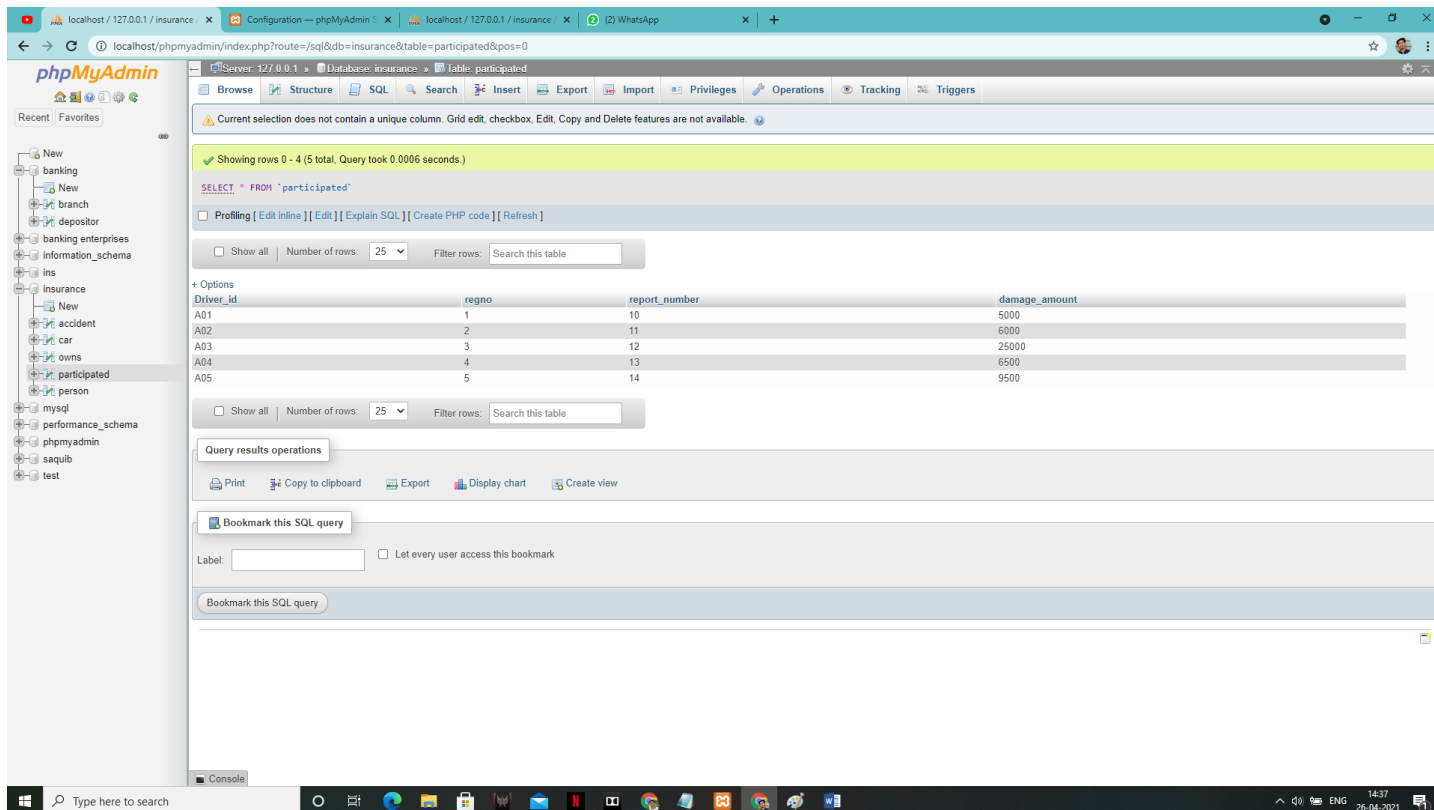
Label:  ☐ Let every user access this bookmark

Bookmark this SQL query

Console

### 3) Demonstrate how you

a) Update the damage amount for the car with a specific Regno in the accident with report number 12 to 25000.



The screenshot shows the phpMyAdmin interface for a database named 'insurance'. The 'participated' table is selected, and the SQL query 'SELECT \* FROM `participated`' is executed. The results show 5 rows of data. The row with 'regno' 12 and 'report\_number' 12 has a 'damage\_amount' of 25000.

Driver_id	regno	report_number	damage_amount
A01	1	10	5000
A02	2	11	6000
A03	3	12	25000
A04	4	13	6500
A05	5	14	9500

b) Add a new accident to the database.

localhost / 127.0.0.1 / insurance x Configuration - phpMyAdmin x localhost / 127.0.0.1 / insurance x (2) WhatsApp

localhost/phpmyadmin/index.php?route=/table/change&db=insurance&table=accident

Server: 127.0.0.1 Database: insurance Table: accident

1 row inserted.

```
INSERT INTO `accident` (`report_number`, `date`, `location`) VALUES ('19', '2021-04-19', 'jp nagar');
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

Run SQL query/queries on table insurance.accident:

```
1 INSERT INTO `accident` (`report_number`, `date`, `location`) VALUES ('19', '2021-04-19', 'jp nagar');
```

report\_number  
date  
location

SELECT \* SELECT INSERT UPDATE DELETE 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

Console

localhost / 127.0.0.1 / insurance x Configuration - phpMyAdmin x localhost / 127.0.0.1 / insurance x (2) WhatsApp

localhost/phpmyadmin/index.php?route=/table/change&db=insurance&table=accident

Server: 127.0.0.1 Database: insurance Table: accident

```
INSERT INTO `accident` (`report_number`, `date`, `location`) VALUES ('19', '2021-04-19', 'jp nagar');
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

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 - 7 (8 total. Query took 0.0008 seconds.)

```
SELECT * FROM `accident`
```

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

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

report_number	date	location
10	2021-04-02	mumbai
11	2021-03-11	delhi
12	2021-03-26	bengaluru
13	2021-04-03	gujarat
14	2021-03-30	JP nagar
19	2021-04-19	jp nagar

☐ 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

#### 4) Find the total number of people who owned cars that were involved in accidents in 2021.

The screenshot shows the phpMyAdmin web interface. The left sidebar displays a database structure with the 'insurance' database selected. The main panel shows a SQL query being executed:

```
1 SELECT COUNT(DISTINCT driver_id) CNT FROM participated A, accident B WHERE A.report_number=B.report_number AND B.date LIKE '2021%';
```

The query results are displayed in a table with the following structure:

report_number	date	location
[Empty table body]		

Below the query editor, a message states: "Your SQL query has been executed successfully." The query results are shown as a single row with the value 5 for the CNT column.

Options: CNT, 5

Query results operations: Console, Copy to clipboard, Export, Display chart, Create view

5) Find the number of accidents in which cars belonging to a specific model (say 'Suzuki') were involved.

The screenshot shows the phpMyAdmin web interface. The left sidebar displays a database structure with a tree view. The 'insurance' database is selected, and the 'car' table is highlighted. The main panel shows a SQL query editor with the following query:

```
1 SELECT COUNT(report_number) CNT FROM participated A, car B WHERE A.regno=B.regno And model='suzuki';
```

Below the query editor, there are buttons for 'SELECT', 'INSERT', 'UPDATE', 'DELETE', 'Clear', 'Format', and 'Get auto-saved query'. A message indicates that the current selection does not contain a unique column, so grid edit, checkbox, Edit, Copy and Delete features are not available. A yellow banner states: 'Your SQL query has been executed successfully.' Below this, the query is repeated: `SELECT COUNT(report_number) CNT FROM participated A, car B WHERE A.regno=B.regno And model='suzuki'`. There are links for 'Profiling', 'Edit inline', 'Edit', 'Explain SQL', 'Create PHP code', and 'Refresh'. The query results are displayed in a table with two columns: 'CNT' and '2'. At the bottom, there are links for 'Console', 'Copy to clipboard', 'Export', 'Display chart', and 'Create view'. The Windows taskbar is visible at the bottom of the screen.