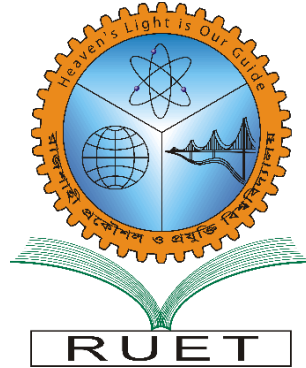


“Heaven’s Light is Our Guide”

Rajshahi University of Engineering & Technology, Rajshahi



Department of Electrical & Computer
Engineering

Course Code: ECE-2216

Course Title: Data Base Systems Sessional

Report No.: 01

Date of Submission: 17.09.2024

Submitted To,

Oishi Jyoti

Assistant Professor

Dept. Of ECE, RUET

Submitted By,

Name: Fouzia Jannat Sithy

Roll: 2110020

Session: 2021-2022

1.1 Experiment No.: 01

1.2 Experiment Name: Create a database system for class 21 where there are 2 tables for odd and even batch containing following information for 10 students:

- i. ID
- ii. Name
- iii. Contact
- iv. Blood group
- v. Major subject
- vi. Obtained marks.

Perform the following operations: insert, delete, update, create, alter, drop, truncate, rename.

1.3 Objectives:

1. To learn how to create a database and define tables for organizing student information.
2. To learn how to create tables with specific columns for storing student data in the database.
3. To learn how to insert records into tables to populate them with sample student data.
4. To learn how to update records in the tables to reflect changes in student information.
5. To learn how to delete rows and modify tables by altering, truncating, or renaming them as needed.

1.4 Query and Output:

- **Insert:**

```
INSERT INTO odd_batch (id, name, contact, blood_group, major_subject, obtained_marks)
VALUES
(2110001, 'Sadik', '000001', 'A+', 'Mathematics', 88),
(2110003, 'Samia', '000003', 'B-', 'Physics', 82),
(2110005, 'Absent', '000005', 'O+', 'DSA', 85),
(2110015, 'Khalid', '000015', 'AB+', 'DT', 78),
(2110017, 'Turja', '000017', 'A-', 'Circuit', 90);
```

```
INSERT INTO even_batch (id, name, contact, blood_group, major_subject, obtained_marks)
VALUES
(2110010, 'Rubaid', '000010', 'B+', 'Mathematics', 78),
```

(2110012, 'Jifat', '000012', 'O-', 'Physics', 70),
 (2110014, 'Noman', '000014', 'AB-', 'DSA', 90),
 (2110020, 'Sithy', '000020', 'A+', 'Circuit', 89),
 (2110026, 'Nafisha', '000026', 'B-', 'DT', 72);

New

- class21
 - New
 - even_batch
 - odd_batch
- information_schema
- mysql
- performance_schema
- phpmyadmin
- test

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0005 seconds.)

```
CREATE TABLE odd_batch ( id INT PRIMARY KEY, name VARCHAR(100), contact VARCHAR(15), blood_group VARCHAR(10), major_subject VARCHAR(50), obtained_marks INT );
```

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

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

```
CREATE TABLE even_batch ( id INT PRIMARY KEY, name VARCHAR(100), contact VARCHAR(15), blood_group VARCHAR(10), major_subject VARCHAR(50), obtained_marks INT );
```

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

New

- even_batch
- odd_batch
- information_schema
- mysql
- performance_schema
- phpmyadmin
- test

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

Extra options

	id	name	contact	blood_group	major_subject	obtained_marks
<input type="checkbox"/> Edit Copy Delete	2110001	Sadik	000001	A+	Mathematics	88
<input type="checkbox"/> Edit Copy Delete	2110003	Samia	000003	B-	Physics	82
<input type="checkbox"/> Edit Copy Delete	2110005	Absent	000005	O+	DSA	85
<input type="checkbox"/> Edit Copy Delete	2110015	Khalid	000015	AB+	DT	78
<input type="checkbox"/> Edit Copy Delete	2110017	Turja	000017	A-	Circuit	90

☐ Check all | With selected: Edit Copy Delete Export

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

class21

- New
 - even_batch
 - odd_batch
- information_schema
- mysql
- performance_schema
- phpmyadmin
- test

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

Extra options

	id	name	contact	blood_group	major_subject	obtained_marks
<input type="checkbox"/> Edit Copy Delete	2110010	Rubaid	000010	B+	Mathematics	78
<input type="checkbox"/> Edit Copy Delete	2110012	Jifat	000012	O-	Physics	70
<input type="checkbox"/> Edit Copy Delete	2110014	Noman	000014	AB-	DSA	90
<input type="checkbox"/> Edit Copy Delete	2110020	Sithy	000020	A+	Circuit	89
<input type="checkbox"/> Edit Copy Delete	2110026	Nafisha	000026	B-	DT	72

☐ Check all | With selected: Edit Copy Delete Export

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

Update:

```
UPDATE odd_batch  
SET contact = '01010101'  
WHERE id = 2110001;
```

The screenshot shows a database management interface. On the left, a tree view displays the database structure, including a 'class21' database with 'even_batch' and 'odd_batch' tables. The main panel on the right shows a query execution result. A green banner at the top indicates '1 row affected. (Query took 0.0004 seconds.)'. Below this, the executed SQL query is displayed: `UPDATE odd_batch SET contact = '01010101' WHERE id = 2110001;`. At the bottom of the query panel, there are links for '[Edit inline]', '[Edit]', and '[Create PHP code]'.

The screenshot shows a table view of a database. The table has columns: id, name, contact, blood_group, major_subject, and obtained_marks. There are five rows of data. Each row has a checkbox, an 'Edit' icon, a 'Copy' icon, and a 'Delete' icon. At the bottom, there are controls for 'Check all', 'With selected:', 'Edit', 'Copy', 'Delete', and 'Export'.

	id	name	contact	blood_group	major_subject	obtained_marks
<input type="checkbox"/>	2110001	Sadik	01010101	A+	Mathematics	88
<input type="checkbox"/>	2110003	Samia	000003	B-	Physics	82
<input type="checkbox"/>	2110005	Absent	000005	O+	DSA	85
<input type="checkbox"/>	2110015	Khalid	000015	AB+	DT	78
<input type="checkbox"/>	2110017	Turja	000017	A-	Circuit	90

```
UPDATE even_batch  
SET obtained_marks = 95  
WHERE id = 2110014;
```

The screenshot shows a database management interface. On the left, a tree view displays the database structure, including a 'class21' database with 'even_batch' and 'odd_batch' tables. The main panel on the right shows a query execution result. A green banner at the top indicates '1 row affected. (Query took 0.0003 seconds.)'. Below this, the executed SQL query is displayed: `UPDATE even_batch SET obtained_marks = 95 WHERE id = 2110014;`. At the bottom of the query panel, there are links for '[Edit inline]', '[Edit]', and '[Create PHP code]'.

<div><div><div>←</div><div>→</div></div><div></div></div>			id	name	contact	blood_group	major_subject	obtained_marks	
<input type="checkbox"/>	<div><div><div></div></div><div>Edit</div></div>	<div><div><div></div></div><div>Copy</div></div>	<div><div><div></div></div><div>Delete</div></div>	2110010	Rubaid	000010	B+	Mathematics	78
<input type="checkbox"/>	<div><div><div></div></div><div>Edit</div></div>	<div><div><div></div></div><div>Copy</div></div>	<div><div><div></div></div><div>Delete</div></div>	2110012	Jifat	000012	O-	Physics	70
<input type="checkbox"/>	<div><div><div></div></div><div>Edit</div></div>	<div><div><div></div></div><div>Copy</div></div>	<div><div><div></div></div><div>Delete</div></div>	2110014	Noman	000014	AB-	DSA	95
<input type="checkbox"/>	<div><div><div></div></div><div>Edit</div></div>	<div><div><div></div></div><div>Copy</div></div>	<div><div><div></div></div><div>Delete</div></div>	2110020	Sithy	000020	A+	Circuit	89
<input type="checkbox"/>	<div><div><div></div></div><div>Edit</div></div>	<div><div><div></div></div><div>Copy</div></div>	<div><div><div></div></div><div>Delete</div></div>	2110026	Nafisha	000026	B-	DT	72

☐ Check all

With selected:

Edit

Copy

Delete

Export

☐

Show all

Number of rows:

25

Filter rows:

Search this table

Sort by key:

None

Delete:

DELETE FROM odd_batch
WHERE id = 2110005;

New

class21

New

even_batch

odd_batch

information_schema

✓ 1 row deleted. (Query took 0.0042 seconds.)

DELETE FROM odd_batch WHERE id = 2110005;

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

new

class21

New

even_batch

odd_batch

information_schema

mysql

performance_schema

phpmyadmin

test

SELECT * FROM `odd_batch`

☐ 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

Extra options

			id	name	contact	blood_group	major_subject	obtained_marks	
<input type="checkbox"/>	Edit	Copy	Delete	2110001	Sadik	01010101	A+	Mathematics	88
<input type="checkbox"/>	Edit	Copy	Delete	2110003	Samia	000003	B-	Physics	82
<input type="checkbox"/>	Edit	Copy	Delete	2110015	Khalid	000015	AB+	DT	78
<input type="checkbox"/>	Edit	Copy	Delete	2110017	Turja	000017	A-	Circuit	90

☐ Check all With selected: Edit Copy Delete Export

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

Alter:

ALTER TABLE odd_batch
ADD COLUMN date_of_birth DATE;

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0005 seconds.)

```
ALTER TABLE odd_batch ADD COLUMN date_of_birth DATE;
```

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

performance_schema
phpmyadmin
test

	id	name	contact	blood_group	major_subject	obtained_marks	date_of_birth
<input type="checkbox"/>	2110001	Sadik	01010101	A+	Mathematics	88	NULL
<input type="checkbox"/>	2110003	Samia	000003	B-	Physics	82	NULL
<input type="checkbox"/>	2110015	Khalid	000015	AB+	DT	78	NULL
<input type="checkbox"/>	2110017	Turja	000017	A-	Circuit	90	NULL

☐ Check all With selected: ☐ Edit ☐ Copy ☐ Delete ☐ Export
☐ Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

ALTER TABLE even_batch
MODIFY COLUMN obtained_marks FLOAT(5,2);

information_schema
mysql
performance_schema
phpmyadmin
test

Extra options

	id	name	contact	blood_group	major_subject	obtained_marks
<input type="checkbox"/>	2110010	Rubaid	000010	B+	Mathematics	78.00
<input type="checkbox"/>	2110012	Jifat	000012	O-	Physics	70.00
<input type="checkbox"/>	2110014	Noman	000014	AB-	DSA	95.00
<input type="checkbox"/>	2110020	Sithy	000020	A+	Circuit	89.00
<input type="checkbox"/>	2110026	Nafisha	000026	B-	DT	72.00

☐ Check all With selected: ☐ Edit ☐ Copy ☐ Delete ☐ Export

Drop:

DROP TABLE even_batch;

Gmail YouTube Maps

phpMyAdmin

Server: 127.0.0.1 » Database: class21

Recent Favorites

Run SQL query/queries on table class21.e

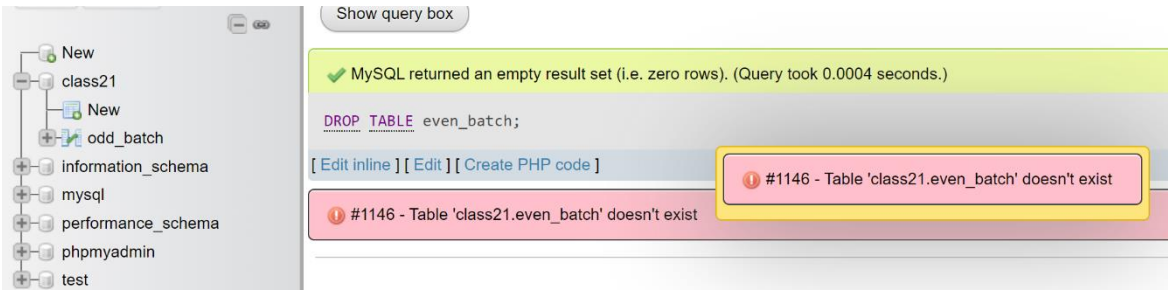
```
1 DROP TABLE even_batch;
```

localhost says

Do you really want to execute "DROP TABLE even_batch; "?

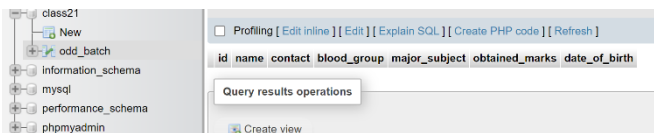
OK Cancel

information_schema



Truncate:

TRUNCATE TABLE odd_batch;



Rename:

RENAME TABLE odd_batch TO old_odd_batch;

