

Heavens Light is Our Guide
Rajshahi University of Engineering & Technology



Course Title
Data Base Systems Sessional
Course No: ECE 2216
Lab Report No: 01

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<u>Submitted by:</u>	<u>Submitted to:</u>
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Experiment No: 01

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

Objective: Design, organize, and manage data in a database system using SQL for efficient record handling.

Query and Output:

For odd roll:

Query for creating table:

```
CREATE TABLE odd_roll (  
    id INT(100),  
    name VARCHAR(100) NOT NULL,  
    contact VARCHAR(15),  
    blood_group VARCHAR(3),  
    major_subject VARCHAR(100),  
    obtained_marks INT  
);
```

Output:

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	id	int(100)			Yes	NULL			Change Drop More
<input type="checkbox"/>	2	name	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	3	contact	varchar(15)	utf8mb4_general_ci		Yes	NULL			Change Drop More
<input type="checkbox"/>	4	blood_group	varchar(3)	utf8mb4_general_ci		Yes	NULL			Change Drop More
<input type="checkbox"/>	5	major_subject	varchar(100)	utf8mb4_general_ci		Yes	NULL			Change Drop More
<input type="checkbox"/>	6	obtained_marks	int(11)			Yes	NULL			Change Drop More

Query for inserting information into table:

```
INSERT INTO odd_roll(id,name, contact, blood_group, major_subject, obtained_marks)
VALUES
('2110001','Md. Shahin Alam', '1234567890', 'A+', 'Computer Science', 85),
('2110003','Md. Himel Reza', '2345678901', 'B-', 'Mechanical Engineering', 90),
('2110005','Md. Hasin Sadaf', '3456789012', 'O+', 'Electrical Engineering', 78),
('2110007','Al Mosabbir', '4567890123', 'AB+', 'Civil Engineering', 88),
('2110009','Sadik Islam', '5678901234', 'A-', 'Computer Science', 92),
('2110011','Jahin Roy', '6789012345', 'O-', 'Chemical Engineering', 81),
('2110013','Rahim Islam', '7890123456', 'B+', 'Biotechnology', 74),
('2110015','Karim Islam', '8901234567', 'AB-', 'Architecture', 89),
('2110017','Avi Roy', '9012345678', 'A+', 'Information Technology', 86),
('2110019','Shakhsor Roy', '0123456789', 'B-', 'Physics', 82);
```

Output:

id	name	contact	blood_group	major_subject	obtained_marks
2110001	Md. Shahin Alam	1234567890	A+	Computer Science	85
2110003	Md. Himel Reza	2345678901	B-	Mechanical Engineering	90
2110005	Md. Hasin Sadaf	3456789012	O+	Electrical Engineering	78
2110007	Al Mosabbir	4567890123	AB+	Civil Engineering	88
2110009	Sadik Islam	5678901234	A-	Computer Science	92
2110011	Jahin Roy	6789012345	O-	Chemical Engineering	81
2110013	Rahim Islam	7890123456	B+	Biotechnology	74
2110015	Karim Islam	8901234567	AB-	Architecture	89
2110017	Avi Roy	9012345678	A+	Information Technology	86
2110019	Shakhsor Roy	0123456789	B-	Physics	82

For even roll:

Query for creating table:

```
CREATE TABLE even_roll (
    id INT(100),
    name VARCHAR(100) NOT NULL,
    contact VARCHAR(15),
    blood_group VARCHAR(3),
    major_subject VARCHAR(100),
    obtained_marks INT
);
```

Output:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 id	int(100)			Yes	NULL			Change Drop More
<input type="checkbox"/>	2 name	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	3 contact	varchar(15)	utf8mb4_general_ci		Yes	NULL			Change Drop More
<input type="checkbox"/>	4 blood_group	varchar(3)	utf8mb4_general_ci		Yes	NULL			Change Drop More
<input type="checkbox"/>	5 major_subject	varchar(100)	utf8mb4_general_ci		Yes	NULL			Change Drop More
<input type="checkbox"/>	6 obtained_marks	int(11)			Yes	NULL			Change Drop More

Query for inserting information into table:

```
INSERT INTO Students (id,name, contact, blood_group, major_subject, obtained_marks)
VALUES
('2110002','Zanifa Islam', '1234567890', 'A+', 'Computer Science', 85),
('2110004','Jannatul Ferdous Iqra', '2345678901', 'B-', 'Computer Science', 90),
('2110006','Samia Jahan', '3456789012', 'O+', 'Computer Science', 78),
('2110008','Radia Ilhan', '4567890123', 'AB+', 'Computer Science', 88),
('21100010','Sanjana Islam Orpa', '5678901234', 'A-', 'Computer Science', 92),
('21100012','Proma Sarker', '6789012345', 'O-', 'Computer Science', 81),
('21100014','Farhana Islam Saima', '7890123456', 'B+', 'Computer Science', 74),
('21100016','Sithy Roy', '8901234567', 'AB-', 'Computer Science', 89),
('21100018','Esha Islam', '9012345678', 'A+', 'Computer Science', 86),
('21100020','Mohona Benarji', '0123456789', 'B-', 'Computer Science', 82);
```

Output:

id	name	contact	blood_group	major_subject	obtained_marks
2110002	Zanifa Islam	1234567890	A+	Computer Science	85
2110004	Jannatul Ferdous Iqra	2345678901	B-	Computer Science	90
2110006	Samia Jahan	3456789012	O+	Computer Science	78
2110008	Radia Ilhan	4567890123	AB+	Computer Science	88
21100010	Sanjana Islam Orpa	5678901234	A-	Computer Science	92
21100012	Proma Sarker	6789012345	O-	Computer Science	81
21100014	Farhana Islam Saima	7890123456	B+	Computer Science	74
21100016	Sithy Roy	8901234567	AB-	Computer Science	89
21100018	Esha Islam	9012345678	A+	Computer Science	86
21100020	Mohona Benarji	0123456789	B-	Computer Science	82