

## (Start TRIANGLES table)

Q1 Write a query to create the **TRIANGLES** table.

Ans. CREATE TABLE TRIANGLES

(TRIANGLE INT primary key,

SIDE\_A INT,

SIDE\_B INT,

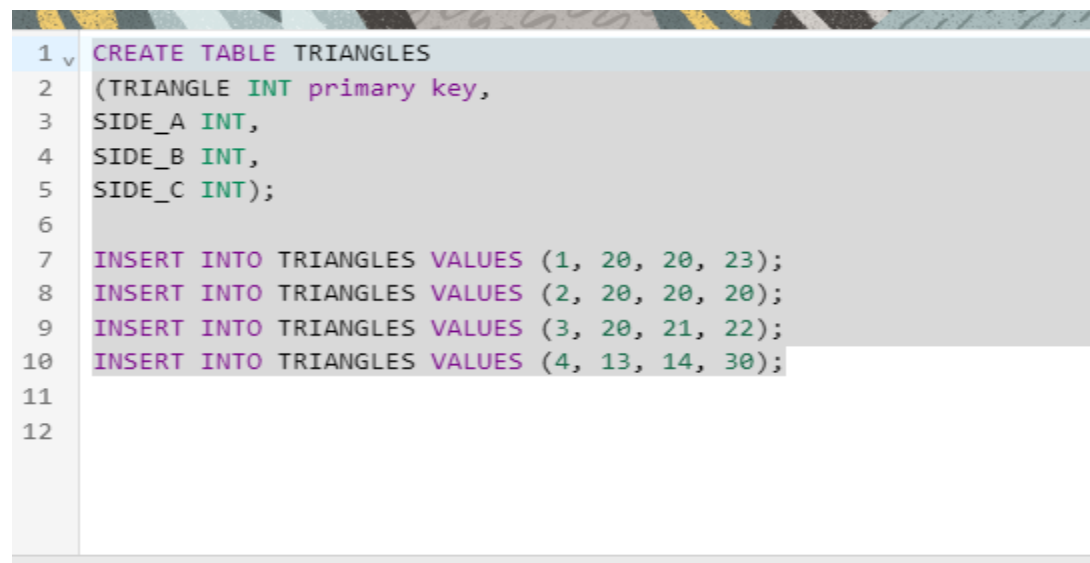
SIDE\_C INT);

INSERT INTO TRIANGLES VALUES (1, 20, 20, 23);

INSERT INTO TRIANGLES VALUES (2, 20, 20, 20);

INSERT INTO TRIANGLES VALUES (3, 20, 21, 22);

INSERT INTO TRIANGLES VALUES (4, 13, 14, 30);



```
1 v CREATE TABLE TRIANGLES
2 (TRIANGLE INT primary key,
3  SIDE_A INT,
4  SIDE_B INT,
5  SIDE_C INT);
6
7 INSERT INTO TRIANGLES VALUES (1, 20, 20, 23);
8 INSERT INTO TRIANGLES VALUES (2, 20, 20, 20);
9 INSERT INTO TRIANGLES VALUES (3, 20, 21, 22);
10 INSERT INTO TRIANGLES VALUES (4, 13, 14, 30);
11
12
```

Table created.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

Q2. i) Write a query to obtain the sum of side\_A of all triangles.

Ans. `select sum(SIDE_A) FROM TRIANGLES`

```
1  select  sum(SIDE_A) FROM TRIANGLES
```

SUM(SIDE_A)
73

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Q2 ii) Write a query to obtain an equilateral triangle from the table.

Ans. select \* from TRIANGLES

where SIDE\_A = SIDE\_B AND SIDE\_B = SIDE\_C;

```
1 v select * from TRIANGLES
2 where SIDE_A = SIDE_B AND SIDE_B = SIDE_C;
3
```

TRIANGLE	SIDE_A	SIDE_B	SIDE_C
2	20	20	20

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Q2 iii) Write a query to obtain an isosceles triangle from the table

Ans. SELECT \* FROM TRIANGLES

where SIDE\_A = SIDE\_B OR SIDE\_B = SIDE\_C OR SIDE\_A = SIDE\_C;

```
1 v SELECT * FROM TRIANGLES
2 where SIDE_A = SIDE_B OR SIDE_B = SIDE_C OR SIDE_A = SIDE_C;
```

TRIANGLE	SIDE_A	SIDE_B	SIDE_C
1	20	20	23
2	20	20	20

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2 rows selected.

Q2 iv) Find the no. of triangles in the table.

Ans `SELECT COUNT(TRIANGLE) FROM TRIANGLES;`

```
1 SELECT COUNT(TRIANGLE) FROM TRIANGLES;
```

COUNT(TRIANGLE)
4

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Q2 v) Find the length of side\_B of Triangle 3.

Ans. SELECT SIDE\_B FROM TRIANGLES

WHERE TRIANGLE = 3;

```
1 SELECT SIDE_B FROM TRIANGLES
2 WHERE TRIANGLE = 3;
```

SIDE_B
21

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## (Start Employees table)

Q1 Write a query to create the **Employees** table

Ans. create table employees

(employee\_id int primary key,

name varchar(50),

months int,

salary int);

insert into employees values (12228, 'Rahul', 15, 10000);

insert into employees values (33645, 'Amit', 1, 15000);

insert into employees values (45692, 'Aditi', 17, 18000);

insert into employees values (56188, 'Pavan', 11,21000);

```
1 v create table employees
2   (employee_id int primary key,
3    name varchar(50),
4    months int,
5    salary int);
6
7   insert into employees values (12228, 'Rahul', 15, 10000);
8   insert into employees values (33645, 'Amit', 1, 15000);
9   insert into employees values (45692, 'Aditi', 17, 18000);
10  insert into employees values (56188, 'Pavan', 11,21000);
```

Table created.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

Q2 i) Count the total no. of employees.

Ans. select count(\*) from employees;



The screenshot shows a SQL query execution interface. At the top, a query is entered: `select count(*) from employees;`. Below the query, the result is displayed in a table with one row and one column. The column header is `COUNT(*)` and the value is `4`. A button labeled "Download CSV" is located below the result table.

COUNT(*)
4

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Q2. ii) Find the salary of Rahul.

Ans. select Name ,salary from employees  
where name = 'Rahul';

```
1 select NAME ,salary from employees
2 where name = 'Rahul';
3
```

NAME	SALARY
Rahul	10000

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;

Q2. iii) Set Amit's months to 12.

Ans. update employees set months = 12

where name = 'Amit';

```
1 v update employees set months = 12
2 where name = 'Amit';
3
```

1 row(s) updated.

Q2. iv) Find the sum of salaries of all employees.

Ans. `select sum(salary) from employees;`

```
1  select sum(salary) from employees;
```

SUM(SALARY)
64000

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Q2. v) Find no. of employees whose name starts with 'A'.

Ans. select count(name) from employees

where name like 'A%'

```
1 v select count(name) from employees
2 where name like 'A%'
```

COUNT(NAME)
2

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