

```
USE 31380_db;
```

```
CREATE TABLE area (  
    id INT PRIMARY KEY NOT NULL  
    AUTO_INCREMENT,  
    radius INT,  
    area FLOAT  
);
```

```
DELIMITER $$
```

```
CREATE PROCEDURE area_proc (IN rad  
INT)
```

```
BEGIN
```

```
    DECLARE a FLOAT DEFAULT 0.0;
```

```
    SET a = 3.14 * rad * rad;
```

```
    INSERT INTO area (radius, area) VALUES  
(rad, a);
```

```
END $$
```

```
DELIMITER ;
```

```
-- Calling the procedure
```

```
CALL area_proc(5);
```

```
-- Viewing inserted data
```

```
SELECT * FROM area;
```

```
/*
```

```
+----+-----+-----+
```

```
| id | radius | area |
```

```
+----+-----+-----+
```

```
| 1 |    5 | 78.5 |
```

```
+----+-----+-----+
```

```
*/
```

```
-- Modified Procedure
```

```
DELIMITER $$
```

```
CREATE PROCEDURE mod_area (IN rad  
INT)
```

```
BEGIN
```

```
DECLARE a FLOAT DEFAULT 0.0;
WHILE rad <= 9 DO
    SET a = 3.14 * rad * rad;
    INSERT INTO area (radius, area)
VALUES (rad, a);
    SET rad = rad + 1;
END WHILE;
END $$
DELIMITER ;
```

-- Calling modified procedure

```
CALL mod_area (2);
```

-- Viewing inserted data

```
SELECT * FROM area;
```

```
/*
```

```
+---+-----+-----+
```

```
| id | radius | area  |
```

+-----+-----+-----+

1	5	78.5
2	2	12.56
3	3	28.26
4	4	50.24
5	5	78.5
6	6	113.04
7	7	153.86
8	8	200.96
9	9	254.34

+-----+-----+-----+

\*/