

STORED PROCEDURE 1

- **Name:** add_person
- **Purpose:** After registration, this stored procedure adds a new person to the database. Based on the person type, it adds their details to their respective tables. For eg: If the new person is a student, then their details are added in both the PERSON table and the STUDENT table, and the same applies for STAFF and FACULTY tables.
- **Code:**

```
use niner_dining;
drop procedure if exists add_person;
DELIMITER $$
create PROCEDURE add_person (in person_name varchar(300), in person_email varchar(150),
in person_type_param varchar(10), in phone_number bigint (15),in date_of_birth datetime,
in graduation_year int(20), in major varchar(75), in academic_level varchar(75),
in title varchar(75), in highest_degree varchar(75), in degree_college varchar(75),
in position varchar(75), in is_admin boolean, out result boolean)
BEGIN
declare personType int(20) default 1;
declare personID int(20);
declare sql_error TINYINT DEFAULT FALSE;
declare continue handler for sqlexception
set sql_error = true ;
set personType = (SELECT person_type_id FROM person_type where person_type = person_type_param);
insert into person (person_name, person_email,date_of_birth, phone_number,person_type_id,enrolled_date)
values(person_name, person_email, date_of_birth,phone_number, personType,now());
set personID = (SELECT LAST_INSERT_ID());
if(person_type_param = 'STUDENT') then
insert into student (person_id, graduation_year, major, academic_level) values
(personID, graduation_year, major, academic_level);
elseif(person_type_param = 'FACULTY') then
insert into faculty (person_id, title, highest_degree, degree_college) values
(personID, title, highest_degree, degree_college);
elseif(person_type_param = 'STAFF') then
insert into staff (person_id, position, is_admin) values
(personID, position,is_admin);
end if;
if sql_error = false then
set result = true;
commit;
else
set result = false;
rollback;
end if;
END$$
DELIMITER ;
```

- Screenshot of execution:

```

1 • use niner_dining;
2 • drop procedure if exists add_person;
3 DELIMITER $$
4 • create PROCEDURE add_person (in person_name varchar(300), in person_email varchar(150),
5   in person_type_param varchar(10), in phone_number bigint (15), in date_of_birth datetime,
6   in graduation_year int(20), in major varchar(75), in academic_level varchar(75),
7   in title varchar(75), in highest_degree varchar(75), in degree_college varchar(75),
8   in position varchar(75), in is_admin boolean, out result boolean)
9 BEGIN
10 declare personType int(20) default 1;
11 declare personID int(20);
12 declare sql_error TINYINT DEFAULT FALSE;
13 declare continue handler for sqlexception
14 set sql_error = true ;
15 set personType = (SELECT person type id FROM person type where person type = person type param);

```

Output

| # | Time | Action | Message |
|---|----------|--|---|
| 1 | 13:46:22 | use niner_dining | 0 row(s) affected |
| 2 | 13:46:22 | drop procedure if exists add_person | 0 row(s) affected |
| 3 | 13:46:22 | create PROCEDURE add_person (in person_name varchar(300), in person_email var... | 0 row(s) affected, 4 warning(s): 1681 Integer display width |

- Screenshot of call:

```

1
2 • call niner_dining.add_person ('nehal', 'nehal@uncc.edu',
3   'STUDENT',6734439907,'1998-08-03',
4   2023, 'CS', 'GRAD',
5   null, null, null,
6   NULL, NULL,@result);
7
8

```

Output

| # | Time | Action | Message |
|---|----------|---|-------------------|
| 1 | 14:02:20 | call niner_dining.add_person ('nehal', 'nehal@uncc.edu', 'STUDENT',6734439907,'1... | 0 row(s) affected |

- Screenshot of results:

```

2 • call niner_dining.add_person ('nehal', 'nehal@uncc.edu',
3   'STUDENT',6734439907,'1998-08-03',
4   2023, 'CS', 'GRAD',
5   null, null, null,
6   NULL, NULL,@result);
7 • select * from person;

```

| Result Grid | | | | | | | |
|--|-----------|-------------|----------------|---------------------|--------------|----------------|---------------------|
| Filter Rows: <input type="text"/> | | | | | | | |
| Edit: Export/Import: Wrap Cell Content: | | | | | | | |
| | person_id | person_name | person_email | date_of_birth | phone_number | person_type_id | enrolled_date |
| ▶ | 1 | lekha | lekha@uncc.edu | 1999-06-04 00:00:00 | 6480394829 | 1 | 2021-10-31 14:00:19 |
| | 2 | nehal | nehal@uncc.edu | 1998-08-03 00:00:00 | 6734439907 | 1 | 2021-10-31 14:02:20 |
| • | NULL | NULL | NULL | NULL | NULL | NULL | NULL |

person 7 x

Apply

Output

Action Output

| # | Time | Action | Message |
|---|------------|--|-------------------|
| | 1 14:02:20 | call niner_dining.add_person ('nehal', 'nehal@uncc.edu', 'STUDENT',6734439907,'... | 0 row(s) affected |
| | 2 14:03:42 | select * from person LIMIT 0, 1000 | 2 row(s) returned |

```

3   'STUDENT',6734439907,'1998-08-03',
4   2023, 'CS', 'GRAD',
5   null, null, null,
6   NULL, NULL,@result);
7 • select * from person;
8 • select * from student;

```

| Result Grid | | | | | |
|--|------------|-----------|-----------------|-------|----------------|
| Filter Rows: <input type="text"/> | | | | | |
| Edit: Export/Import: Wrap Cell Content: | | | | | |
| | student_id | person_id | graduation_year | major | academic_level |
| ▶ | 1 | 1 | 2022 | CS | GRAD |
| | 2 | 2 | 2023 | CS | GRAD |
| • | NULL | NULL | NULL | NULL | NULL |

student 8 x Apply

Output

📄 Action Output ▾

| # | Time | Action | Message |
|-----|----------|--|-------------------|
| ✓ 1 | 14:02:20 | call niner_dining.add_person ('nehal', 'nehal@uncc.edu', 'STUDENT',6734439907,'... | 0 row(s) affected |
| ✓ 2 | 14:03:42 | select * from person LIMIT 0, 1000 | 2 row(s) returned |
| ✓ 3 | 14:04:54 | select * from student LIMIT 0, 1000 | 2 row(s) returned |

STORED PROCEDURE 2

- **Name:** add_restaurant
- **Purpose:** Adds details of a new restaurant as well as its social media details to the database.
- **Code:**

```
use niner_dining;
drop procedure if exists add_restaurant;
DELIMITER $$
create PROCEDURE add_restaurant (in location varchar(200), in restaurant_name varchar(75),
in working_hours varchar(20), in website varchar(200), in email varchar(200), in instagram_id
varchar(200),
in facebook_id varchar(200), out result boolean)
BEGIN
declare restaurantID int(20) default 1;
declare sql_error TINYINT DEFAULT FALSE;
declare continue handler for sqlexception
set sql_error = true ;
insert into restaurant ( location, restaurant_name, working_hours )
values (location, restaurant_name, working_hours);
set restaurantID = (SELECT LAST_INSERT_ID());
insert into social_media_details ( restaurant_id, website, email, instagram_id, facebook_id )
values ( restaurantID, website, email, instagram_id, facebook_id ) ;
if sql_error = false then
set result = true;
commit;
else
set result = false;
rollback;
end if;
END$$
DELIMITER ;
```

- Screenshot of execution:

```

1 • use niner_dining;
2 • drop procedure if exists add_restaurant;
3 DELIMITER $$
4 • create PROCEDURE add_restaurant (in location varchar(200), in restaurant_name varchar(75),
5   in working_hours varchar(20), in website varchar(200), in email varchar(200), in instagram_id varchar(200),
6   in facebook_id varchar(200), out result boolean)
7 BEGIN
8   declare restaurantID int(20) default 1;
9   declare sql_error TINYINT DEFAULT FALSE;
10  declare continue handler for sqlexception
11  set sql_error = true ;
12  insert into restaurant ( location, restaurant_name, working_hours )
13  values (location, restaurant_name, working_hours);
14  set restaurantID = (SELECT LAST_INSERT_ID());
15  insert into social_media_details ( restaurant_id, website, email, instagram_id, facebook_id )
16  values ( restaurantID, website, email, instagram_id, facebook_id );
17  if sql_error = false then
18    set result = true;
19  else
20    set result = false;
21  end if;
22 end;
23 DELIMITER ;

```

Output

Action Output

| # | Time | Action | Message |
|---|----------|--|---|
| 1 | 13:49:59 | use niner_dining | 0 row(s) affected |
| 2 | 13:49:59 | drop procedure if exists add_restaurant | 0 row(s) affected |
| 3 | 13:49:59 | create PROCEDURE add_restaurant (in location varchar(200), in restaurant_name v... | 0 row(s) affected, 1 warning(s): 1681 Integer display width |

- Screenshot of Call:

```

1 • call add_restaurant ( 'UNCC', 'Wendys', '8-5', 'wendys.com', 'wendys@uncc.edu',
2   'wendysIG', 'wendysFB', @result);
3

```

Output

Action Output

| # | Time | Action | Message |
|---|----------|--|-------------------|
| 1 | 14:06:36 | call add_restaurant ('UNCC', 'Wendys', '8-5', 'wendys.com', 'wendys@uncc.edu', 'we... | 0 row(s) affected |

- Screenshot of results:

```

1 • call add_restaurant ( 'UNCC', 'Wendys', '8-5', 'wendys.com', 'wendys@uncc.edu',
2   'wendysIG', 'wendysFB', @result);
3
4 • select * from restaurant;

```

Result Grid

| | restaurant_id | location | restaurant_name | working_hours |
|---|---------------|----------|-----------------|---------------|
| ▶ | 1 | UNCC | Wendys | 8-5 |
| * | NULL | NULL | NULL | NULL |

restaurant 1 x Apply

Output

Action Output

| # | Time | Action | Message |
|-----|----------|---|-------------------|
| ✓ 1 | 14:06:36 | call add_restaurant ('UNCC', 'Wendys', '8-5', 'wendys.com', 'wendys@uncc.edu', 'w... | 0 row(s) affected |
| ✓ 2 | 14:07:29 | select * from restaurant LIMIT 0, 1000 | 1 row(s) returned |

```

1 • call add_restaurant ( 'UNCC', 'Wendys', '8-5', 'wendys.com', 'wendys@uncc.edu',
2   'wendysIG', 'wendysFB', @result);
3
4 • select * from restaurant;
5 • select * from social_media_details;

```

Result Grid

| | social_media_id | restaurant_id | website | email | instagram_id | facebook_id |
|---|-----------------|---------------|------------|-----------------|--------------|-------------|
| ▶ | 1 | 1 | wendys.com | wendys@uncc.edu | wendysIG | wendysFB |
| * | NULL | NULL | NULL | NULL | NULL | NULL |

social_media_details 2 x Apply

Output

Action Output

| # | Time | Action | Message |
|-----|----------|---|-------------------|
| ✓ 1 | 14:06:36 | call add_restaurant ('UNCC', 'Wendys', '8-5', 'wendys.com', 'wendys@uncc.edu', 'w... | 0 row(s) affected |
| ✓ 2 | 14:07:29 | select * from restaurant LIMIT 0, 1000 | 1 row(s) returned |
| ✓ 3 | 14:08:43 | select * from social_media_details LIMIT 0, 1000 | 1 row(s) returned |