

The full process UNF to 3NF

ID:

NAME:

Process

UNF

```
SHOW_BOOKING (show_date_time, play_number, play_name, play_writer,  
total_number_of_patrons, theatre_id, theatre_street, theatre_town,  
(booking_number, number_of_seats, total_amount_due, paid, client_number,  
client_name))
```

1NF

```
SHOW ( show_date_time , play_number , play_name, play_writer,  
total_number_of_patrons, theatre_id)  
THEATRE ( theatre_id , theatre_street, theatre_town)  
BOOKING ( booking_number , number_of_seats, total_amount_due, paid,  
client_number, show_date_time, play_number)  
CLIENT ( client_number , client_name)
```

Partial Dependencies:

- client_number -> client_name

2NF

```
SHOW ( show_date_time , play_number , play_name, play_writer,  
total_number_of_patrons, theatre_id)  
THEATRE ( theatre_id , theatre_street, theatre_town)  
BOOKING ( booking_number , number_of_seats, total_amount_due, paid,  
client_number, show_date_time, play_number)  
CLIENT ( client_number , client_name)
```

Transitive Dependencies:

- theatre_id -> theatre_street, theatre_town
- play_number -> play_name, play_writer

3NF

```
SHOW ( show_date_time , play_number , total_number_of_patrons)  
THEATRE ( theatre_id , theatre_street, theatre_town)  
BOOKING ( booking_number , number_of_seats, total_amount_due, paid,  
client_number, show_date_time, play_number)  
CLIENT ( client_number , client_name)  
PLAY ( play_number , play_name, play_writer)  
SHOW_THEATRE ( show_date_time , play_number , theatre_id)
```

Full Dependencies:

- show_date_time, play_number -> total_number_of_patrons
- theatre_id -> theatre_street, theatre_town
- play_number -> play_name, play_writer
- booking_number -> number_of_seats, total_amount_due, paid, client_number, show_date_time, play_number
- client_number -> client_name
- show_date_time, play_number -> theatre_id