

Database description

The database contains information on ticket sales at the ticket office. It contains information about tickets for given concerts, information about concerts, information about performers or information about employees of the point of sale and customers of this point. With the help of this database, you can trace the history of a given order - individual statuses and dates of change in the status of the order, and which employee dealt with the order.

From the database we can get the following information:

- The exact date of the concert and which artist will play at it
- Personal data of employees
- Personal data of customers
- Data on concert organizers and what concerts they organize
- Data on artists and what genres of music they perform and on what concerts will they play
- Information about orders and their statuses
- Information about tickets and their sale

You can perform the following operations on the database:

- A summary of data about the performers and the number of tickets sold for each of their concerts and the total price of these tickets sold
- Summary of data about customers and the number of tickets they bought
- Calculation of the percentage share of concerts of a given genre in relation to all concerts
- Returning a list of concerts taking place within the user's interest in the number of days from the current date
- Checking if the artist with the given id plays more concerts in a given month and year than the average number of concerts of other artists in a given month and year
- Returning a list of invoices that were paid at least a week later than they were issued. In addition, there is information about customers and how many days late the invoice was paid. ● Sprawdzenie czy bilet o podanym id jest popularny i często kupowany (czyli jest kupowany częściej niż średnia sprzedaż wszystkich biletów)
- Adding a concert and a ticket for this concert at the same time using a procedure
- Adding an artist and their music genres using a procedure
- Adding an employee or customer and possibly a new address using a procedure. If the given address already exists, the new employee/customer will be assigned to the existing address.
- Delete an order and all corresponding records from other tables using a procedure

- Adding an order and at the same time adding the corresponding records to other tables in which there is a relationship with the new order record using a procedure
- Automatic setting of the correct ticket price in the ticket_sale table and summing up the ticket price and the transaction fee price in the order table during inserts to ticket_sale
- Automatic updating of ticket quantities during sales/returns

Na bazę nałożono ograniczenia:

- Each performer can add one concert per day
- No more than one concert may take place on one day
- You cannot enter an invalid zip code (in the wrong format) in the addresses table
- You cannot sell more tickets than are currently available
- It is not possible to completely remove clients, instead the value is set to 'yes' in the column whether_deleted. This was achieved with an instead of trigger on the view