Lab: Built in Functions

You can check your solutions here: https://judge.softuni.org/Contests/3136/Additional-Exercises.

19. Obfuscate CC Numbers

Unzip the **02.Built-in-Functions-Databases.zip** file, containing the databases. Import the **Bank** database. Our database contains credit card details for customers.

Write SQL query to provide the **Id**, **FirstName, LastName** and **PaymentNumber without revealing the serial numbers** of each customer.

Example

Id	FirstName	LastName	PaymentNumber
1	Guy	Gilbert	564532**********
2	Kevin	Brown	441793**********
…	…	…	

*Bonus

Create a View for the use of clients. It should keep the information with hidden serial numbers.

Id	FirstName	LastName	Payment Number
1	Guy	Gilbert	564532**********
2	Kevin	Brown	441793**********
3	Vera	Nelson	123456**********

20. Pallets

Import the **Logistics** database. Our database contains details about products that have to be loaded on pallets.

Calculate the required number of pallets to ship for each item. The products have **Name**, **Quantity** and:

- **BoxCapacity** specifies how many items can fit in one box
- **PalletCapacity** specifies how many boxes can fit in a pallet

Select the full information about Name, Quantity, BoxCapacity, PalletCapacity and add a new column called **Number of pallets** that shows the calculated amount of pallets for each item.

Example

Name	Quantity	BoxCapacity	PalletCapacity	Number of pallets
Water 500ml	108	6	18	1
Water 500ml	10	6	18	1
Chocolate chip	350	24	3	5
Oil pump	100	1	12	9

21. Quarterly Report

Use table **Invoices** from **Logistics** database. It contains details about invoices. Prepare sales data for aggregation by displaying yearly **invoiceId, total, quarter**, **month**, **year** and **day** of **sale**.

Example

InvoiceId	Total	Quarter	Month	Year	Day
1	1.98	1	1	2009	1
4	3.96	1	1	2009	2
5	5.94	1	1	2009	3
6	8.91	1	1	2009	6