KM Studio - szkolenia



# "MS Access – advanced training"

#### Course description:

Access training – advanced operations is addressed to people who want to deepen their knowledge of databases and MS Access environment. The participants should have basic knowledge of databases and MS Access.

## Skills acquired during the training:

- o Advanced database creation techniques
- o Creating advanced reports
- o Creating advanced queries
- o The basics of SQL language
- o Working on different data sources (data export and import)
- o Working and creating relational databases
- o Database administration
- o The basics of Visual Basic language

# Training program:

#### 1. The basics of relational database theory

- Relationship concept overview of types of relationships,
- Table, row, column,
- Keys, foreign keys, and links between tables,
- Data types, type selection,
- Anomalies and normal forms.

#### 2. Queries - advanced operations

- Crosstab,
- Updated,
- Creating tables,
- Adding records,



- Deleting records,
- Creating queries by using SQL language,
- Simple queries SELECT construction ,
- Selecting a row WHERE clause,
- Data ordering ORDER BY clause,
- LIMIT, OFFSET clauses,
- Multiple theory operations,
- Merge multiple tables.

#### 3. Forms - advanced operations

- Form design,
- Properties and use of controls,
- Subforms.

## 4. Reporting - advanced operations

- The design of report,
- Grouping data,
- Graphs.

## 5. Adding and modifying data using SQL language

- Adding data INSERT,
- Modifying data UPDATE,
- Deleting data DELETE.

## 6. Database design using examples

- Database design process,
- Database schema notation,
- Design patterns.

## 7. Data import and export

- Working with text files and MS Excel files.

## 8. Database administration

- Users, groups, permissions,
- Defining your own menu,
- Compacting and repairing databases,
- Installing.

## 9. Macros and events

- Events and their usage,
- Macros,
- Introducing and the simplest VBA procedures.

# Methodology:

- PowerPoint mini lectures



- working on computers (each participant works on a separate computer)
- mini training videos

*Organizational information:* Number of training hours: 14 hours / 2 days Time of training 9:15-16:15 Place of training: Łódź, Piotrkowska 125 – KM Studio - trainings