

AGGREGATION AND GROUPING

GROUP BY **groups** together rows that have the same values in specified columns. It computes summaries (aggregated) for each unique combination of values.

city	country_id	rating
1	Paris	4
101	Barcelona	3
102	Lyons	3
2	Barcelona	3
103	Nuremberg	3
104	Munich	3
3	New York	4
105	Chicago	4

AGGREGATE FUNCTIONS

- avg(expr)** - average value for rows within the group
- count(expr)** - count of values for rows within the group
- max(expr)** - maximum value within the group
- min(expr)** - minimum value within the group
- sum(expr)** - sum of values within the group

EXAMPLE QUERIES

Find out the number of cities

```
SELECT COUNT(*)
FROM cities;
```

Find out the number of cities with more than 4 ratings

```
SELECT COUNT(*) rating
FROM cities;
```

Find out the number of distinct country values

```
SELECT COUNT(DISTINCT country_id)
FROM cities;
```

Find out the smallest and the greatest country populations

```
SELECT MIN(population), MAX(population)
FROM country;
```

Find out the total population of cities in respective countries

```
SELECT country_id, SUM(population)
FROM cities
GROUP BY country_id;
```

Find out the average rating for cities in respective countries if the average is above 3.5

```
SELECT country_id, AVG(rating)
FROM cities
GROUP BY country_id
HAVING AVG(rating) > 3.5;
```

SUBQUERIES

A subquery is a query that is nested inside another query, or inside another subquery. There are different types of subqueries.

SINGLE VALUE

The simplest subquery returns exactly one column and exactly one row. It can be used with comparison operators $<$, $>$, $=$, $<=>$, $<>$, $<=>$.

This query finds cities with the same rating as Paris

```
SELECT name FROM city
WHERE rating = (
    SELECT rating
    FROM city
    WHERE name = 'Paris')
);
```

MULTIPLE VALUES

A subquery can also return multiple columns or multiple rows. Such subqueries can be used with operators IN, EXISTS, ALL, or ANY.

This query finds cities in countries that have a population above 10M

```
SELECT name
FROM city
WHERE country_id IN (
    SELECT country_id
    FROM country
    WHERE population > 10000000)
);
```

CORRELATED

A correlated subquery refers to the tables introduced in the outer query. A correlated subquery depends on the outer query. It cannot be run independently from the outer query.

This query finds cities with a population greater than the average population in the country

```
SELECT *
FROM city c1, city
WHERE population > (
    SELECT AVG(population)
    FROM city average_city
    WHERE average_city.country_id = c1.country_id)
);
```

This query finds countries that have at least one city

```
SELECT name
FROM country
WHERE EXISTS (
    SELECT *
    FROM city
    WHERE country_id = country_id)
);
```

SET OPERATIONS

Set operations are used to combine the results of two or more queries into a single result. The combined queries must return the same number of columns and compatible data types. The names of the corresponding columns can be different.

cyclists	skaters
country	country
1	1
2	2
3	3

UNION

UNION combines the results of two result sets and removes duplicates. **UNION ALL** doesn't remove duplicate rows.

This query displays German cyclists together with German skaters

```
SELECT name
FROM cycling
WHERE country = 'DE'
UNION / UNION ALL
SELECT name
FROM skating
WHERE country = 'DE';
```



INTERSECT

INTERSECT returns only rows that appear in both result sets.

This query displays German cyclists who are also German skaters at the same time

```
SELECT name
FROM cycling
WHERE country = 'DE'
INTERSECT
SELECT name
FROM skating
WHERE country = 'DE';
```



EXCEPT

EXCEPT returns only the rows that appear in the first result set but do not appear in the second result set.

This query displays German cyclists unless they are also German skaters at the same time

```
SELECT name
FROM cycling
WHERE country = 'DE'
EXCEPT / MINUS
SELECT name
FROM skating
WHERE country = 'DE';
```



Sql Server Guide For Absolute Beginners

R Bogdan



Sql Server Guide For Absolute Beginners:

The Absolute Beginner's Guide to Learn Database Programming Using Python GUI with PostgreSQL and SQL Server Vivian Siahaan, Rismon Hasiholan Sianipar, 2020-01-16 This book is a comprehensive guide to Python as one of the fastest growing computer languages including Web and Internet applications This clear and concise introduction to the Python language is aimed at readers who are already familiar with programming in at least one language This hands on book introduces the essential topic of coding and the Python computer language to beginners and programmers of all ages This book explains relational theory in practice and demonstrates through two projects how you can apply it to your use of PostgreSQL and SQL Server databases This book covers the important requirements of teaching databases with a practical and progressive perspective This book offers the straightforward practical answers you need to help you do your job This hands on tutorial reference guide to PostgreSQL and SQL Server is not only perfect for students and beginners but it also works for experienced developers who aren't getting the most from both databases In designing a GUI and as an IDE you will make use Qt Designer In the first chapter you will learn to use several widgets in PyQt5 Display a welcome message Use the Radio Button widget Grouping radio buttons Displays options in the form of a check box and Display two groups of check boxes In chapter two you will learn to use the following topics Using Signal Slot Editor Copy and place text from one Line Edit widget to another Convert data types and make a simple calculator Use the Spin Box widget Use scrollbars and sliders Using the Widget List Select a number of list items from one Widget List and display them on another Widget List widget Add items to the Widget List Perform operations on the Widget List Use the Combo Box widget Displays data selected by the user from the Calendar Widget Creating a hotel reservation application and Display tabular data using Table Widgets In chapter three you will learn How to create the initial three tables project in the School database Teacher Class and Subject tables How to create database configuration files How to create a Python GUI for inserting and editing tables How to create a Python GUI to join and query the three tables In chapter four you will learn how to Create a main form to connect all forms Create a project will add three more tables to the school database Student Parent and Tuition tables Create a Python GUI for inserting and editing tables Create a Python GUI to join and query over the three tables In chapter five you will join the six classes Teacher TClass Subject Student Parent and Tuition and make queries over those tables In chapter six you will get introduction of postgresql And then you will learn querying data from the postgresql using Python including establishing a database connection creating a statement object executing the query processing the resultset object querying data using a statement that returns multiple rows querying data using a statement that has parameters inserting data into a table using Python updating data in postgresql database using Python calling postgresql stored function using Python deleting data from a postgresql table using Python and postgresql Python transaction In chapter seven you will create and configure PostgreSQL database In this chapter you will create Suspect table in crime database This table has eleven columns suspect_id primary

key suspect_name birth_date case_date report_date suspect_status arrest_date mother_name address telephone and photo You will also create GUI to display edit insert and delete for this table In chapter eight you will create a table with the name Feature_Extraction which has eight columns feature_id primary key suspect_id foreign key feature1 feature2 feature3 feature4 feature5 and feature6 The six fields except keys will have a VARCHAR data type 200 You will also create GUI to display edit insert and delete for this table In chapter nine you will create two tables Police and Investigator The Police table has six columns police_id primary key province city address telephone and photo The Investigator table has eight columns investigator_id primary key investigator_name rank birth_date gender address telephone and photo You will also create GUI to display edit insert and delete for both tables In chapter ten you will create two tables Victim and Case_File The Victim table has nine columns victim_id primary key victim_name crime_type birth_date crime_date gender address telephone and photo The Case_File table has seven columns case_file_id primary key suspect_id foreign key police_id foreign key investigator_id foreign key victim_id foreign key status and description You will create GUI to display edit insert and delete for both tables as well

The Absolute Beginner's Guide to Learn Database Programming Using Python GUI with MariaDB and SQL Server Vivian Siahaan, Rismon Hasiholan Sianipar, 2020-01-16 This book is designed to introduce programmers to programming and computational thinking through the lens of exploring database This book offers Python programmers one place to look when they need help guiding to Python as one of the fastest growing computer languages including Web and Internet applications This clear and concise introduction to the Python language is aimed at readers who are already familiar with programming in at least one language This hands on book introduces the essential topic of coding and the Python computer language to beginners and programmers of all ages This book explains relational theory in practice and demonstrates through two projects how you can apply it to your use of MariaDB and SQL Server databases This book covers the important requirements of teaching databases with a practical and progressive perspective This book offers the straightforward practical answers you need to help you do your job This hands on tutorial reference guide to MariaDB and SQL Server is not only perfect for students and beginners but it also works for experienced developers who aren't getting the most from both databases In designing a GUI and as an IDE you will make use Qt Designer In the first chapter you will learn to use several widgets in PyQt5 Display a welcome message Use the Radio Button widget Grouping radio buttons Displays options in the form of a check box and Display two groups of check boxes In chapter two you will learn to use the following topics Using Signal Slot Editor Copy and place text from one Line Edit widget to another Convert data types and make a simple calculator Use the Spin Box widget Use scrollbars and sliders Using the Widget List Select a number of list items from one Widget List and display them on another Widget List widget Add items to the Widget List Perform operations on the Widget List Use the Combo Box widget Displays data selected by the user from the Calendar Widget Creating a hotel reservation application and Display tabular data using Table Widgets In chapter three you will learn How to create the initial

three tables project in the School database Teacher Class and Subject tables How to create database configuration files How to create a Python GUI for inserting and editing tables How to create a Python GUI to join and query the three tables In chapter four you will learn how to Create a main form to connect all forms Create a project will add three more tables to the school database Student Parent and Tuition tables Create a Python GUI for inserting and editing tables Create a Python GUI to join and query over the three tables In chapter five you will join the six classes Teacher TClass Subject Student Parent and Tuition and make queries over those tables In chapter six you will create dan configure database In this chapter you will create Suspect table in crime database This table has eleven columns suspect_id primary key suspect_name birth_date case_date report_date suspect_status arrest_date mother_name address telephone and photo You will also create GUI to display edit insert and delete for this table In chapter seven you will create a table with the name Feature_Extraction which has eight columns feature_id primary key suspect_id foreign key feature1 feature2 feature3 feature4 feature5 and feature6 The six fields except keys will have a VARCHAR data type 200 You will also create GUI to display edit insert and delete for this table In chapter eight you will create two tables Police and Investigator The Police table has six columns police_id primary key province city address telephone and photo The Investigator table has eight columns investigator_id primary key investigator_name rank birth_date gender address telephone and photo You will also create GUI to display edit insert and delete for both tables In chapter nine you will create two tables Victim and Case_File The Victim table has nine columns victim_id primary key victim_name crime_type birth_date crime_date gender address telephone and photo The Case_File table has seven columns case_file_id primary key suspect_id foreign key police_id foreign key investigator_id foreign key victim_id foreign key status and description You will create GUI to display edit insert and delete for both tables as well

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Absolute Beginner's Guide to Databases John V. Petersen, 2002 Absolute Beginner's Guide to Databases brings the elements of a database together using easy to understand language perfect for the true beginner It not only gives specific hands on practice but also provides an overview of designing maintaining and using a database This book covers what databases are used for why databases are important why the design of the database is important database normalization keys to solid database design differences in types of databases and indexes what they are how we use them and why they are important

Absolute Beginner's Guide to Networking Joseph W. Habraken, 2003 This new edition gives readers the ability and understanding necessary to create and administer a network The book shows the reader how to physically connect computers and other devices to a network and access peripherals such as printers over the network

Access 2013 Absolute Beginner's Guide Alison Balter, 2013-04-18 Make the most of Access 2013 without becoming a technical expert This book is the fastest way to master Access and use it

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Microsoft Access 2002 Susan Sales Harkins, Mike Gunderloy, 2003 Microsoft Access 2002 is a powerful relational database software package that makes it easy to create and manage complex databases With Access users can create a database quickly from scratch or by using an Access database Wizard Once the database is created Access provides all the tools needed to enter and manipulate data With the help of the Absolute Beginner's Guide readers are able to quickly start a new database by using the Database Wizard create tables from scratch or by using a Wizard add and edit database information by using both tables and forms and manipulate data in a number of tables by using queries and reports The book assumes absolutely no prior knowledge of the topic and learning is easy because of the book's lighthearted but no nonsense style It serves as an excellent resource for users who are completely new to Access 2002 or who are upgrading from a previous version of the software **Absolute Beginner's Guide to Microsoft Office Access 2003** Mike Gunderloy, Susan Sales Harkins, 2003 Provides an overview of the features and functions of the program discussing such topics as building queries importing and exporting data creating reports securing a database and distributing an Access application **Absolute Beginner's Guide to SQL Server Analysis Services** Nathan M. Walker, 2015-05-15 Thought provoking and accessible in approach this updated and expanded second edition of the Absolute Beginner's Guide to SQL Server Analysis Services provides a user friendly introduction to the subject Taking a clear structural framework it guides the reader through the subject's core elements A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts This succinct and enlightening overview is a required reading for advanced graduate level students We hope you find this book useful in shaping your future career Feel free to send us your enquiries related to our publications to info@smppress.co.uk Science Management Press of London **Absolute Beginner's Guide to Microsoft Office Outlook 2003** Ken Slovak, 2003 A guide to Microsoft Outlook covers such topics as managing a calendar sending and receiving e mail working with address books and using notes and journals **SQL Programming & Database Management For Absolute Beginners** William Sullivan, 2017-11-10 SQL Made Easy The Ultimate Step by Step Guide To Success Do you want to learn SQL programming without the complicated explanations Do you want to understand how to manage databases without all the confusion Well then this is your go to guide to help you master SQL programming in no time This book breaks down the fundamentals elements that are essential to make you proficient in SQL programming and database management By the end of this book you will be confident enough to take on any problems that encompass SQL SQL software can be complex but a powerful tool if used with the right understanding In this book you will discover how SQL is simple flexible portable and most of all well integrated to various database applications The demand for SQL professionals is HUGE and the opportunities are endless Learn how to easily master it and land yourself high grade paying jobs or free lance work Entry level positions in the US can easily earn 90 000 USD salary That's almost six figures The demand for these desirable skill sets are high so become familiar with SQL ASAP What Sets This Book Apart From The Rest

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database can look to this title for simple answers about a complex tool The CD ROM contains such software as TunaSQL CodFishSQL Lite DATASQL HTM and other tools for estimating the requirements of an SQL server system Cover Title

Building Integrated Business Intelligence Solutions with SQL Server 2008 R2 & Office 2010 Philo Janus,Stacia Misner,2011-02-22 Master Microsoft s Business Intelligence Tools Building Integrated Business Intelligence Solutions with SQL Server 2008 R2 Office 2010 explains how to take full advantage of Microsoft s collaborative business intelligence BI tools A variety of powerful flexible technologies are covered including SQL Server Analysis Services SSAS Excel Excel Services PowerPivot SQL Server Integration Services SSIS Server Reporting Services SSRS SharePoint Server 2010 PerformancePoint Services and Master Data Services This practical guide focuses on deveoloping end to end BI solutions that foster informed decision making Create a multidimensional store for aggregating business data with SSAS Maximize the analysis capabilities of Excel and Excel Services Combine data from different sources and connect data for analysis with PowerPivot Move data into the system using SSIS InfoPath Streamsight and SharePoint 2010 External Lists Build and publish reports with SSRS Integrate data from disparate applications using SharePoint 2010 BI features Create scorecards and dashboards with PerformancePoint Services Summarize large volumes of data in charts and graphs Use the SSRS map feature for complex visualizations of spatial data Uncover patterns and relationships in data using the SSAS data mining engine Handle master data management with Master Data Services Publish the components of your BI solution and perform administrative tasks

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Table of Contents Sql Server Guide For Absolute Beginners

1. Understanding the eBook Sql Server Guide For Absolute Beginners
 - The Rise of Digital Reading Sql Server Guide For Absolute Beginners
 - Advantages of eBooks Over Traditional Books
2. Identifying Sql Server Guide For Absolute Beginners
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Sql Server Guide For Absolute Beginners
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sql Server Guide For Absolute Beginners
 - Personalized Recommendations
 - Sql Server Guide For Absolute Beginners User Reviews and Ratings
 - Sql Server Guide For Absolute Beginners and Bestseller Lists

5. Accessing Sql Server Guide For Absolute Beginners Free and Paid eBooks
 - Sql Server Guide For Absolute Beginners Public Domain eBooks
 - Sql Server Guide For Absolute Beginners eBook Subscription Services
 - Sql Server Guide For Absolute Beginners Budget-Friendly Options
6. Navigating Sql Server Guide For Absolute Beginners eBook Formats
 - ePub, PDF, MOBI, and More
 - Sql Server Guide For Absolute Beginners Compatibility with Devices
 - Sql Server Guide For Absolute Beginners Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sql Server Guide For Absolute Beginners
 - Highlighting and Note-Taking Sql Server Guide For Absolute Beginners
 - Interactive Elements Sql Server Guide For Absolute Beginners
8. Staying Engaged with Sql Server Guide For Absolute Beginners
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sql Server Guide For Absolute Beginners
9. Balancing eBooks and Physical Books Sql Server Guide For Absolute Beginners
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sql Server Guide For Absolute Beginners
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Sql Server Guide For Absolute Beginners
 - Setting Reading Goals Sql Server Guide For Absolute Beginners
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Sql Server Guide For Absolute Beginners
 - Fact-Checking eBook Content of Sql Server Guide For Absolute Beginners
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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