### Introduction to Database Tables

Welcome to the world of database management! In this welcome pack, we will introduce you to the basics of creating and managing database tables using SQL commands. A database table is a collection of related data stored in a structured format, consisting of rows and columns. Each row represents a single record, and each column represents a field or attribute of the record.

## Activity 1: Matching Game

Match the following terms with their definitions:

- Database table
- Row
- Column
- Record
- Field

#### Definitions:

- A collection of related data stored in a structured format
- A single entry in a database table
- A vertical list of cells in a database table
- A single piece of information in a database table
- A horizontal list of cells in a database table

SQL Commands for Table (	Creation and Manag	ement		
SQL (Structured Query Languag database. To create a database				
CREATE TABLE customers (cust	omer_id INT, name VA	ARCHAR(255), email VAI	RCHAR(255));	
This command creates a table i	named "customers" wit	h three columns: custor	mer_id, name, and email.	
Activity 2: Fill in the Blanks				
Complete the following SQL corcustomer_id, order_date, and to		le named "orders" with f	our columns: order_id,	
CREATE TABLE orders (	INT,	INT,	DATE,	DECIMAL(10, 2))

Real-World Applications of Database Management
Database management is essential in various fields, including business, healthcare, and social media. For example, a company like Amazon uses databases to manage customer information, orders, and inventory.  Case Study:
Read the following scenario and answer the questions:
A small business wants to create a database to manage customer information. The database should include columns for customer name, email, phone number, and address.
<ul><li>1. What type of data would you store in each column?</li><li>2. What SQL command would you use to create the database table?</li></ul>
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Practice makes perfect! Complete the following exercises to reinforce your understanding of database tables and SQL commands.  1. Create a database table named "products" with columns for product_id, name, description, price, and quantity.  2. Insert data into the "products" table using the `INSERT INTO` command.  3. Retrieve data from the "products" table using the `SELECT` command.	Practice Exercises and Activities
quantity. 2. Insert data into the "products" table using the `INSERT INTO` command.	
	quantity.  2. Insert data into the "products" table using the `INSERT INTO` command.

Quiz Time!
Test your knowledge with the following quiz questions:
<ul><li>1. What is the purpose of a primary key in a database table?</li><li>2. What SQL command is used to create a new database table?</li><li>3. What is the difference between a row and a column in a database table?</li></ul>

Case Study: Designing a Database for a Small Business
Read the following scenario and design a database to meet the requirements:
A small business wants to create a database to manage customer information, orders, and products. The database should include tables for customers, orders, and products.
<ol> <li>Design the database tables and relationships between them.</li> <li>Write the SQL commands to create the database tables.</li> </ol>

# Glossary of Key Terms

Here are some key terms to remember:

- Database table: A collection of related data stored in a structured format.
  Row: A single entry in a database table.

- Column: A vertical list of cells in a database table.
  Record: A single piece of information in a database table.
- Field: A horizontal list of cells in a database table.
- SQL: Structured Query Language, a programming language used to manage and manipulate data in a database.

## **Additional Resources**

For further learning and practice, visit the following websites:

W3Schools: SQL TutorialTutorials Point: SQL TutorialSQL Fiddle: Online SQL Editor

## Conclusion

Congratulations on completing this welcome pack! You now have a basic understanding of creating and managing database tables using SQL commands. Remember to practice and apply your knowledge to real-world scenarios.

Assessment and Evaluation
Assess your understanding by completing the following evaluation questions:
<ol> <li>What is the purpose of a database table?</li> <li>What SQL command is used to create a new database table?</li> <li>What is the difference between a row and a column in a database table?</li> </ol>
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