

## 25 SQL practice problems with solutions:

<https://towardsdatascience.com/twenty-five-sql-practice-exercises-5fc791e24082>

### 1. Cancellation rates

From the following table of user IDs, actions, and dates, write a query to return the publication and cancellation rate for each user.

users

user_id	action	date
1	start	1-1-20
1	cancel	1-2-20
2	start	1-3-20
2	publish	1-4-20
3	start	1-5-20
3	cancel	1-6-20
4	start	1-7-20

Desired output

user_id	publish_rate	cancel_rate
1	0.5	0.5
2	1.0	0.0
3	0.0	1.0

```
WITH users (user_id, action, date)
AS (VALUES
(1, 'start', CAST('01-01-20' AS date)),
(1, 'cancel', CAST('01-02-20' AS date)),
(2, 'start', CAST('01-03-20' AS date)),
(2, 'publish', CAST('01-04-20' AS date)),
(3, 'start', CAST('01-05-20' AS date)),
(3, 'cancel', CAST('01-06-20' AS date)),
(1, 'start', CAST('01-07-20' AS date)),
(1, 'publish', CAST('01-08-20' AS date))),
-- retrieve count of starts, cancels, and publishes for each user
AS (
SELECT user_id,
```

# Sql Practice Problems With Solutions

**Sylvia Moestl Vasilik**



## Sql Practice Problems With Solutions:

**SQL Practice Problems** Sylvia Moestl Vasilik, 2017-03-13 Do you need to learn SQL for your job The ability to write SQL and work with data is one of the most in demand job skills Are you prepared It s easy to find basic SQL syntax and keyword information online What s hard to find is challenging well designed real world problems the type of problems that come up all the time when you re dealing with data Learning how to solve these problems will give you the skill and confidence to step up in your career With SQL Practice Problems you can get that level of experience by solving sets of targeted problems These aren t just problems designed to give an example of specific syntax These are the most common problems you encounter when you deal with data You will get real world practice with real world data I ll teach you how to think in SQL how to analyze data problems figure out the fundamentals and work towards a solution that you can be proud of It contains challenging problems which develop your ability to write high quality SQL code What do you get when you buy SQL Practice Problems Setup instructions for MS SQL Server Express Edition 2016 and SQL Server Management Studio 2016 Microsoft Windows required Both are free downloads A customized sample database with a video walk through on setting it up Practice problems 57 problems that you work through step by step There are targeted hints if you need them which help guide you through the question For the more complex questions there are multiple levels of hints Answers and a short targeted discussion section on each question with alternative answers and tips on usage and good programming practice What does SQL Practice Problems not contain Complex descriptions of syntax There s just what you need and no more A discussion of differences between every single SQL variant MS SQL Server Oracle MySQL That information takes just a few seconds to find online Details on Insert Update and Delete statements That s important to know eventually but first you need experience writing intermediate and advanced Select statements to return the data you want from a relational database What kind of problems are there in SQL Practice Problems SQL Practice Problems has data analysis and reporting oriented challenges that are designed to step you through introductory intermediate and advanced SQL Select statements with a learn by doing technique Most textbooks and courses have some practice problems But most often they re used just to illustrate a particular syntax There s no filtering on what s most useful and what the most common issues are What you ll get with SQL Practice Problems is the problems that illustrate some the most common challenges you ll run into with data and the best most useful techniques to solve them

**SQL Practice Problems** Sylvia Moestl Vasilik, 2016-11-09 Real world practice problems to bring your SQL skills to the next level It s easy to find basic SQL syntax and keyword information online What s hard to find is challenging well designed real world problems the type of problems that come up all the time when you re dealing with data Learning how to solve these problems will give you the skill and confidence to step up in your career With SQL Practice Problems you can get that level of experience by solving sets of targeted problems These aren t just problems designed to give an example of specific syntax or keyword These are the common problems you run into all the time when you deal with

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*Machine Learning Interviews* Susan Shu Chang,2023-11-29 As tech products become more prevalent today the demand for machine learning professionals continues to grow But the responsibilities and skill sets required of ML professionals still vary drastically from company to company making the interview process difficult to predict In this guide data science leader Susan Shu Chang shows you how to tackle the ML hiring process Having served as principal data scientist in several companies Chang has considerable experience as both ML interviewer and interviewee She ll take you through the highly selective recruitment process by sharing hard won lessons she learned along the way You ll quickly understand how to successfully navigate your way through typical ML interviews This guide shows you how to Explore various machine learning roles including ML engineer applied scientist data

scientist and other positions Assess your interests and skills before deciding which ML role s to pursue Evaluate your current skills and close any gaps that may prevent you from succeeding in the interview process Acquire the skill set necessary for each machine learning role Ace ML interview topics including coding assessments statistics and machine learning theory and behavioral questions Prepare for interviews in statistics and machine learning theory by studying common interview questions

**Intelligent Tutoring Systems** Gilles Gauthier,Claude Frasson,Kurt VanLehn,2000-06-05 ITS 2000 is the fifth international conference on Intelligent Tutoring Systems The preceding conferences were organized in Montreal in 1988 1992 and 1996 These conferences were so strongly supported by the international community that it was decided to hold them every two years ITS 98 was organized by Carol Redfield and Valerie Shute and held in San Antonio Texas The program committee included members from 13 countries They received 140 papers 110 full papers and 30 young researchers papers from 21 countries As with any international conference whose proceedings serve as a reference for the field the program committee faced the demanding task of selecting papers from a particularly high quality set of submissions This proceedings volume contains 61 papers selected by the program committee from the 110 papers submitted They were presented at the conference along with six invited lectures from well known speakers The papers cover a wide range of subjects including architectures for ITS teaching and learning strategies authoring systems learning environments instructional designs cognitive approaches student modeling distributed learning environments evaluation of instructional systems cooperative systems Web based training systems intelligent agents agent based tutoring systems intelligent multimedia and hypermedia systems interface design and intelligent distance learning

**Understanding Databases** Suzanne W. Dietrich,2021-08-31 Understanding Databases Concepts and Practice is an accessible highly visual introduction to database systems for undergraduate students across many majors Designed for self contained first courses in the subject this interactive e textbook covers fundamental database topics including conceptual design the relational data model relational algebra and calculus Structured Query Language SQL database manipulation transaction management and database design theory Visual components and self assessment features provide a more engaging and immersive method of learning that enables students to develop a solid foundation in both database theory and practical application Concise easy to digest chapters offer ample opportunities for students to practice and master the material and include a variety of solved real world problems self check questions and hands on collaborative activities that task students to build a functioning database This Enhanced eText also offers interactive multiple choice questions with immediate feedback that allow students to self assess as they proceed through the book Case studies illustrative examples color summary figures and tables with annotations and other pedagogical tools are integrated throughout the text to increase comprehension and retention of key concepts and help strengthen students problem solving skills

*Kickstart Python Programming Fundamentals* Jit Sinha,2025-06-24 TAGLINE Keep Calm and Let Us Tame the Python KEY FEATURES Beginner friendly with clear examples and no prior coding needed

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**WHO IS THIS BOOK FOR** This book is for absolute beginners including students fresh graduates hobbyists career switchers and professionals from non technical backgrounds Whether you re a complete novice a fresher with no coding experience or simply curious about programming this book offers a clear hands on path to start your journey with Python no prior knowledge required

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**MCSE Testprep** Owen Williams,1998 Including only the essential information this test guide features practice practice practice Candidates will study hundreds of sample test questions and learn insider tips and notes from a distinguished team of MCSEs and Microsoft Certified Trainers

**Intelligent Tutoring Systems** ,2000 *Sigcse 98* John Lewis,1998 Hacking Web Services Shreeraj Shah,2007 Web Services are an integral part of next generation Web applications The development and use of these services is growing at an incredible rate and so too are the security issues surrounding them Hacking Web Services is a practical guide for understanding Web services security and assessment methodologies Written for intermediate to advanced security professionals and developers the book provides an in depth look at new concepts and tools used for Web services security Beginning with a brief introduction to Web services technologies the book discusses Web services assessment methodology

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**Pentaho Kettle Solutions** Matt Casters,Roland Bouman,Jos van Dongen,2010-09-28 A complete guide to Pentaho Kettle the Pentaho Data Integration toolset for ETL This practical book is a complete guide to installing configuring and managing Pentaho Kettle If you re a database administrator or developer you ll first get up to speed on Kettle basics and how to apply Kettle to create ETL solutions before progressing to specialized concepts such as clustering extensibility and data vault models Learn how to design and build every phase of an ETL solution Shows developers and database administrators how to use the open source Pentaho Kettle for enterprise level ETL processes Extracting Transforming and Loading data Assumes no prior knowledge of Kettle or ETL and brings beginners thoroughly up to speed at their own pace Explains how to get Kettle solutions up and running then follows the 34 ETL subsystems model as created by the Kimball Group to explore the entire ETL lifecycle including all aspects of data warehousing with Kettle Goes beyond routine tasks to explore how to extend Kettle and scale Kettle solutions using a distributed cloud Get the most out of Pentaho Kettle and your data warehousing with this detailed guide from simple single table data migration to complex multisystem clustered data integration tasks

*Testing Client/server Systems* Kelly C. Bourne,1997 To keep a client server system humming users have to test it often This book provides the tools to keep client server systems running smoothly covering the most popular applications and platforms including PowerBuilder Visual Basic and Delphi

**Intelligent Tutoring Systems** Barry P. Goettl,1998-07-29 This book constitutes the refereed proceedings of the Fourth International Conference on Intelligent Tutoring Systems ITS 98 held in San Antonio Texas USA in August 1998 The 60 revised full papers presented were carefully reviewed and selected for inclusion in the proceedings The book is organized in topical sections on architectures for ITS design and interface issues tutoring and authoring tools collaborative learning knowledge structure and representation teaching and learning strategies applications of ITS student modeling educational agents deploying ITS and Web based ITS

*Sams Teach Yourself Microsoft SQL Server 2000 in 21 Days* Richard Waymire,Rick Sawtell,2000 Business Modeling and Data Mining demonstrates how real world business problems can be formulated so that data mining can answer them The concepts and techniques presented in this book are the essential building blocks in understanding what models are and how they can be used practically to reveal hidden assumptions and needs determine problems discover data determine costs and explore the whole domain of the problem This book articulately explains how to understand both the strategic and tactical aspects of any business problem identify where the key leverage points are and determine where quantitative techniques of analysis such as data mining can yield most benefit It addresses techniques for discovering how to

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*Sams Teach Yourself Microsoft SQL Server 7.0 in 21 Days* Richard Waymire, Rick Sawtell, 1998 As an effective tutorial to bring administrators and anyone new to SQL Server 7 up to speed with the very different features of 7 this book clearly defines and walks the reader through each one thus increasing performance of their database It also gives the reader tips and tricks for working within the new SQL Server 7 product environment

*An Introduction to Programming Using Visual Basic 2005* David I. Schneider, 2006

*Essentials of Medical Pharmacology* is a unique blend of basic and applied pharmacology It provides wide coverage from principles of drug action to skill of informed and rational selection of drugs The 5th edition has been thoroughly revised and updated to include recently introduced drugs and published information This edition places emphasis on evidence based medicine by reference to reliable interventional drug trials conducted particularly over the past two decades Updated therapeutic guidelines from eminent professional bodies WHO and National Health Programmes are summarised in relevant areas Illustrations have been improved and enriched The layout is made more attractive and user friendly

**MCSE TestPrep** Emmett Dulaney, 1998 This title cuts to the chase to provide experienced users with the basic essentials needed to pass the new Internet Information Server 4 exam 70 87 The core information is supplemented with hundreds of questions and exercises for readers to learn the information through practice and repetition

**MCSE Training Kit** Carl Rabeler, 2001 This official MCSE Training Kit teaches database administrators how to set up and support Microsoft SQL Server 2000 as they prepare for MCP Exam 70 228 a core exam for MCDBA certification and an elective on the Microsoft Windows RM 2000 MCSE track Topics map directly to the objectives measured by the MCP exam including installing and configuring SQL Server 2000 creating databases optimizing database performance extracting and transforming data managing security and monitoring and troubleshooting SQL Server system activity Students learn through an integrated system of skill building tutorials case study examples and self assessment exercises An economical alternative to classroom instruction this kit enables students to set their own pace and learn by doing

*Proceedings of the 1991 ACM SIGMOD International Conference on Management of Data* James Clifford, Roger King, 1991

*Teach Yourself Database Programming with Visual J++ in 21 Days* John Fronckowiak, Gordon B. McMillan, 1997 For programmers Web developers and power users who want to take their knowledge of Visual J to the next level This book covers the creation of Web applets and fully

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