MySQL
Creating databases and tables

Creating databases in MySQL:

CREATE DATABASE database-name;
SHOW DATABASES;

Creating tables:

USE DATABASE database-name;
CREATE TABLE table-name;
SHOW TABLES;
EXPLAIN TABLE table-name;

```
mysql> SHOW DATABASES;
********************************
| Database                     |
********************************
| information_schema           |
| mysql                        |
| performance_schema           |
| v1semansports                |
********************************
4 rows in set (0.00 sec)
```

The SQL query to create a brand new database uses the SQL keywords CREATE DATABASE followed by your choice of name for the database;

The SQL query to check the existence of databases uses the SQL keyword SHOW DATABASE;

When creating a table, MySQL needs to know the column name and the data type;

```
CREATE TABLE table-name
-> entity 1      data type,
-> entity 2      data type,
-> entity 3      data type,
-> );
```

```
mysql> USE v1semansports;
Database changed
mysql> SHOW TABLES;

| Tables_in_v1semansports |

| productlist             |

1 row in set (0.00 sec)

mysql> EXPLAIN productlist;

| Field   | Type         | Null | Key | Default | Extra |

| id      | int(11)      | YES  |     | NULL    |       |
| product | text         | YES  |     | NULL    |       |
| price   | decimal(8,2) | YES  |     | NULL    |       |

3 rows in set (0.00 sec)
```

Learning Journal: Practice Controlled Assessment Task

Carry out research in order to answer the following questions, using your own words:

1. *What is SQL?*
2. *What is MySQL?*
3. *How is MySQL different from Microsoft Access?*

Gcse Computing A452 Encryption

Mitsuru Matsui

Gcse Computing A452 Encryption:

The Standard Data Encryption Algorithm Harry Katzan,1977 **Simple Steps to Data Encryption** Peter Loshin,2013-04-30 Everyone wants privacy and security online something that most computer users have more or less given up on as far as their personal data is concerned There is no shortage of good encryption software and no shortage of books articles and essays that purport to be about how to use it Yet there is precious little for ordinary users who want just enough information about encryption to use it safely and securely and appropriately WITHOUT having to become experts in cryptography Data encryption is a powerful tool if used properly Encryption turns ordinary readable data into what looks like gibberish but gibberish that only the end user can turn back into readable data again The difficulty of encryption has much to do with deciding what kinds of threats one needs to protect against and then using the proper tool in the correct way It s kind of like a manual transmission in a car learning to drive with one is easy learning to build one is hard The goal of this title is to present just enough for an average reader to begin protecting his or her data immediately Books and articles currently available about encryption start out with statistics and reports on the costs of data loss and quickly get bogged down in cryptographic theory and jargon followed by attempts to comprehensively list all the latest and greatest tools and techniques After step by step walkthroughs of the download and install process there s precious little room left for what most readers really want how to encrypt a thumb drive or email message or digitally sign a data file There are terabytes of content that explain how cryptography works why it s important and all the different pieces of software that can be used to do it there is precious little content available that couples concrete threats to data with explicit responses to those threats This title fills that niche By reading this title readers will be provided with a step by step hands on guide that includes Simple descriptions of actual threat scenarios Simple step by step instructions for securing data How to use open source time proven and peer reviewed cryptographic software Easy to follow tips for safer computing Unbiased and platform independent coverage of encryption tools and techniques Simple descriptions of actual threat scenarios Simple step by step instructions for securing data How to use open source time proven and peer reviewed cryptographic software Easy to follow tips for safer computing Unbiased and platform independent coverage of encryption tools and techniques **Computer Security and the Data Encryption Standard** Dennis K Brandstad,1978 **Maintenance Testing for the Data Encryption Standard** Jason Gait,1980 Validating the Correctness of Hardware Implementations of the NBS Data Encryption Standard Jason Gait,1980 Computer Security and the Data Encryption Standard ,1978 Next Generation Mechanisms for Data Encryption Keshav Kumar,Bishwajeet Kumar Pandey,2025-01-24 This book gives readers a deep insight into cryptography and discusses the various types of cryptography algorithms used for the encryption and decryption of data It also covers the mathematics behind the use of algorithms for encryption and decryption Features Presents clear insight to the readers about the various security algorithms and the different mechanisms used for data encryption Discusses algorithms such as

symmetric encryption asymmetric encryption digital signatures and hash functions used for encryption Covers techniques and methods to optimize the mathematical steps of security algorithms to make those algorithms lightweight which can be suitable for voice encryption Illustrates software methods to implement cryptography algorithms Highlights a comparative analysis of models that are used in implementing cryptography algorithms The text is primarily written for senior undergraduates graduate students and academic researchers in the fields of electrical engineering electronics and communications engineering computer science and engineering and information technology *Cryptography* Carl H. Meyer,Stephen M. Matyas,1982-08-12 The role of cryptography in electronic data processing Block ciphers and stream ciphers The data encryption standard Communication security and file security using cryptography The host system cryptographic operations Generation distribution and installation of cryptographic keys Incorparation of cryptography into a communications architecture Authentication techniques using cryptography Digital signatures Applying cryptography to pin based electronic funds transfer systems Applying cryptography to electronic funds transfer system personal identification numbers and personal keys Measures of secrecy for cryptographic systems Fips publication 46 Further computations of interest Plastic card encoding practices and standards Some cryptographic concepts and methods attack Cryptographic pin security proposed ansi method Analysis of the number of meaningful messages in a redundant language Unicity distance computations Derivation of p u and p sm Index   Fast Software Encryption Mitsuru Matsui,2014-01-15   **Encrypted Email** Hilarie Orman,2015 This SpringerBrief examines the technology of email privacy encryption from its origins to its theoretical and practical details It explains the challenges in standardization usability and trust that interfere with the user experience for software protection Chapters address the origins of email encryption and why email encryption is rarely used despite the myriad of its benefits benefits that cannot be obtained in any other way The construction of a secure message and its entwining with public key technology are covered Other chapters address both independent standards for secure email and how they work The final chapters include a discussion of getting started with encrypted email and how to live with it Written by an expert in software security and computer tools Encrypted Email The History and Technology of Message Privacy is designed for researchers and professionals working in email security and encryption Advanced level students interested in security and networks will also find the content valuable   **Fast Software Encryption** Joan Daemen,Vincent Rijmen,2014-01-15   Fast Software Encryption Ross Anderson,2014-01-15   Lectures on Data Security Ivan Bjerre Damgård,1999-03-10 This tutorial volume is based on a summer school on cryptology and data security held in Aarhus Denmark in July 1998 The ten revised lectures presented are devoted to core topics in modern cryptololgy In accordance with the educational objectives of the school elementary introductions are provided to central topics various examples are given of the problems encountered and this is supplemented with solutions open problems and reference to further reading The resulting book is ideally suited as an up to date introductory text for students and IT professionals interested in modern

cryptology   The Design of Rijndael Joan Daemen,Vincent Rijmen,2020-05-23 An authoritative and comprehensive guide to the Rijndael algorithm and Advanced Encryption Standard AES AES is expected to gradually replace the present Data Encryption Standard DES as the most widely applied data encryption technology This book written by the designers of the block cipher presents Rijndael from scratch The underlying mathematics and the wide trail strategy as the basic design idea are explained in detail and the basics of differential and linear cryptanalysis are reworked Subsequent chapters review all known attacks against the Rijndael structure and deal with implementation and optimization issues Finally other ciphers related to Rijndael are presented   Secure Information Transfer Keith M. Jackson,1990-01-01   Fast Software Encryption Lars Knudsen,2014-01-15   Algebraic Aspects of the Advanced Encryption Standard Carlos Cid,Sean Murphy,Matthew Robshaw,2006-11-24 The Advanced Encryption Standard AES is the successor to the Data Encryption Standard and is potentially the world s most important block cipher a method for encrypting text While existing analytical techniques for block ciphers have used a statistical approach this book provides a comprehensive analysis of the application of algebraic techniques to the Advanced Encryption Standard AES These techniques may have a dramatic effect on the security of the AES   The Use of Passwords for Controlled Access to Computer Resources Helen M. Wood,1977   Fast Software Encryption Serge Vaudenay,1998-03-04   Cryptology Unlocked Reinhard Wobst,2007-08-20 Cryptology includes data encryption cryptography cryptographic protocols and code breaking to provide the fundamentals of data security This new book introduces cryptography in a unique and non mathematical style Cryptology Unlocked explains encryption crypto analysis classic and modern algorithms cryptographic protocols digital standards and much more This innovative book will reveal some of the dangers of code breaking and highlights ways to master code breaking and attack algorithms Topics range from the simplest enciphering methods to precise investigations of modern algorithms Everything you need to understand the delicate balance between complex and actual information with a peppering of anecdotes along the way Join the cryptology adventure and understand The difference between good and bad algorithms Whether or not secret services can read all messages The real world affect cryptography had on World War II The unspoken security risks behind digital mobile standards GSM and UMTS The everyday implications on digital signatures PINs and online banking

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