



GCSE Computing Key Concept

Keywords

Creating databases in MySQL:

CREATE DATABASE database-name;
SHOW DATABASES;

Keywords

Creating tables:

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

MySQL

Creating databases and tables

```
mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| u1semanports |
+-----+
4 rows in set (0.00 sec)
```

The SQL query to check the existence of databases uses the SQL keywords SHOW DATABASES;

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 u1semanports;
Database changed
mysql> SHOW TABLES;
+-----+
| Tables_in_u1semanports |
+-----+
| productlist |
+-----+
1 row in set (0.00 sec)
```

mysql> EXPLAIN productlist;

Field	Type	Null	Key	Default	Extra
id	int(11)	NO		NULL	
product	text	NO		NULL	
price	decimal(8,2)	NO		NULL	

1 row 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;

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

J Spring



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 **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 *Fast Software Encryption* Mitsuru Matsui,2014-01-15 *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 Incorporation 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 Ross Anderson,2014-01-15 **Secure Information Transfer** Keith M. Jackson,1990-01-01

The Use of Passwords for Controlled Access to Computer Resources Helen M. Wood,1977 *Fast Software Encryption*

Lars Knudsen,2014-01-15 Fast Software Encryption Bimal Kumar Roy,Willi Meier,2014-01-15 **Encrypted Email**

Hilarie Orman,2015-08-08 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 **The Design of Rijndael** Joan Daemen,Vincent Rijmen,2021-05-24 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 *Algebraic Aspects of the Advanced Encryption Standard* Carlos Cid,Sean Murphy,Matthew Robshaw,2010-10-29 The Belgian block cipher Rijndael was chosen in 2000 by the U S government s National Institute of Standards and Technology NIST to be the successor to the Data Encryption Standard Rijndael was subsequently standardized as the Advanced Encryption Standard AES which is potentially the world s most important block cipher In 2002 some new analytical techniques were suggested that may have a dramatic effect on the security of the AES Existing analytical techniques for block ciphers depend heavily on a statistical approach whereas these new techniques are algebraic in nature Algebraic Aspects of the Advanced Encryption Standard appearing five years after publication of the AES presents the state of the art for the use of such algebraic techniques in analyzing the AES The primary audience for this work includes academic and industry researchers in cryptology the book is

also suitable for advanced level students **Data Encryption** John A. Pritchard,1980 **Functional Encryption** Khairul Amali Bin Ahmad,Khaleel Ahmad,Uma N. Dulhare,2022-06-14 This book provides awareness of methods used for functional encryption in the academic and professional communities The book covers functional encryption algorithms and its modern applications in developing secure systems via entity authentication message authentication software security cyber security hardware security Internet of Thing IoT cloud security smart card technology CAPTCHA digital signature and digital watermarking This book is organized into fifteen chapters topics include foundations of functional encryption impact of group theory in cryptosystems elliptic curve cryptography XTR algorithm pairing based cryptography NTRU algorithms ring units cocks IBE schemes Boneh Franklin IBE Sakai Kasahara IBE hierarchical identity based encryption attribute based Encryption extensions of IBE and related primitives and digital signatures Explains the latest functional encryption algorithms in a simple way with examples Includes applications of functional encryption in information security application security and network security Relevant to academics research scholars software developers etc *Encryption on Laptop Computers* Behzad Panahi,Sweden. Statistiska centralbyrån,2002 Hardware Based Encryption for the Personal Computer Using the Data Encryption Standard Gary Scott Wiles,1993

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