

程序代写代做 CS编程辅导



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程序代写代做 CS编程辅导 Introduction



- Why database secu
 - Databases often store data that are sensitive in nature.
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 Databases need to preserve data integrity.
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Example: Consider a payroll database, it must be ensured that: QQ: 749389476

• Salaries may not be disclosed to arbitrary users of the database;

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• Salaries can only be modified by users that are properly authorized.



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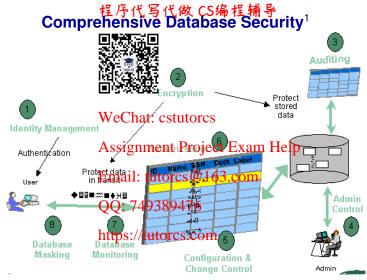


 The protection which database security gives is usually directed against two cases: WeChat: cstutorcs

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- Stop users without database access from having any access; Email: tutorcs@163.com
- Stop users with dejabase aggess from performing actions on the database which are not required to perform their duties.





Oracle database 11g security: data masking, Jonathan Penn, Forrester Research



程序代写代做 CS编程辅导 Main Objectives of Database Security



Confidentiali\(\frac{\partial}{\partial}\)\(\

Integrity

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A potential breach of on databases.

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Loss of confidential of data should not be accessible to those who
do not have legitimate access rights,

e.g., a student is not allowed to view grades of other students.

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 - Loss of confidentiality: data should not be accessible to those who
 do not have legitimate accessing is.
 - e.g., a student is not allowed to view grades of other students.
 - Loss of integrity: data should not be corrupted, through intentional or accidental actsEmail: tutorcs@163.com
 - e.g., students are allowed to see their grades, yet not allowed (obviously) to moulty Iriem. 89476
 - Loss of availability: data should remain accessible to those who have legitimate access rights,
 - e.g., a lecturer is allowed to change grades of students.



程序代写代做 CS编程辅导 Control Measures

- Access control
 - Restrict a database system,
 - e.g., user accounts and passwords.
- Inference controleChat: cstutorcs
 - Ensure that data that users are not authorized to access cannot be inferred to its statistical to just infavorated elp
 - e.g., know the average salary of a department, but don't know the salary of a particular person. 3.com
- Flow control
- ow control
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 Prevent data to flow into unauthorized users,
 - e.g., avoid appent phannels com
- Data encryption
 - Protect sensitive data during storage and transmission,
 - e.g., passwords and credit card information.





²Inference Attacks to Statistical Databases: Data Suppression, Concealing Controls and Other Security Trends, 2000



程序代写代做 CS编程辅导 Inference Attack - Examples



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 An extensive data re-identification experiment run in 1990 by the United States Government: Assignment Project Exam Help

87% of 248 million US citizens could be uniquely identified based on the combination of gender, date or birth and a live-digit ZIP code.

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程序代写代做 CS编程辅导 Inference Attack - Examples



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Suppose that we have a database which contains information of employees, including names, ages and salacies, land only lateurs adjuly attorney and employee in the company, can we infer the salary of lateur introduction of database which contains information of employees, including adjuly and adjuly and adjuly attacked to the company of lateur introduction of the company of lateur introduction of the company of lateur introduction.

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程序代写代做 CS编程辅导 Inference Attack - Examples



Suppose that we have a database which contains information of employees, including names, ages and salaries, and only allows aggregation queries. If we happen to know that Peter is the oldest employee in the company, can we infer the salary of Peter through aggregation queries?
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(1) We could repeated mask: thlow osall fill playars are there whose age is greater than X?" until the answer is 1

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(2) Then we could ask: "what is the average salary of all employees whose age is greater than x.t.tps://tutorcs.com