

# Assignment Project Exam Help

https://eduassistpro.github.



### Introduction

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### Example design in the contract in the contract

- Salaries may not be disclosed to arbitrary users of the database;
- Salaries can only be modified by users that are properly authorized.



#### Introduction

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  - Stop users without database access from h

Add We hat each at edu\_assist\_production and the state of the state of



### Comprehensive Database Security<sup>1</sup>

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



### **Main Objectives of Database Security**

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# Assingerial productive with a partial and p

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accidental acts,

Activity two first them at edu\_assist\_pr



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Loss of integrity: data should not be corr
 accidental acts

A.Q. (udent) real week a set the a U\_assist\_pi
(obviously) to modify them.

- 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.



### **Control Measures**

# Assignment Project Exam Help Restrict access to the database system.

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e.g., know the average salary of a de

## Add the salary of a particular person du\_assist\_pr

- Prevent data to flow into unauthoriz
  - e.g., avoid covert channels.
- Data encryption
  - Protect sensitive data during storage and transmission,
     e.g., passwords and credit card information.



### Inference Attack<sup>2</sup>

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### **Inference Attack - Examples**

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```
87% of 248 million US citizens could be uniquely ide compination of grade, date of hirth and a five-digit assist_pr
```



### **Inference Attack - Examples**

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we happen to know that Peter is the oldest employe

we infer the salary of Peter through aggregation qu

Add WeChat edu\_assist\_pr



### **Inference Attack - Examples**

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- \* https://eduassistpro.github.
  - (1) We could repeatedly ask: "How many e greater thick?" Wheenswinat edu\_assist\_pr
  - (2) Then we could ask: "what is the average salary of all employees whose age is greater than X?".