Regulation	Potential Security Threat
Sarbanes-Oxley Section 302	Unauthorized changes to data
Sarbanes-Oxley Section 404	Modification to data, unauthorized access
Sarbanes-Oxley Section 409	Denial of service, unauthorized access
Gramm-Leach-Bliley	Unauthorized access, modification, or disclosure
Health Insurance Portability and Accountability Act (HIPAA) 164.306	Unauthorized access to data
HIPAA 164.312	Unauthorized access to data
Basel II – Internal Risk Management	Unauthorized access to data
CFR Part 11	Unauthorized access to data
Japan Privacy Law	Unauthorized access to data
EU Directive on Privacy and Electronic Communications	Unauthorized access to data
Payment Card Industry Data Security Standard (PCI DSS)	Unauthorized changes to data

Table 1-1 Regulations That Address Potential Security Threats

1.5 How Oracle Database Vault Protects Privileged User Accounts

Many security breaches, both external and internal, target privileged database user accounts to steal data from databases.

Oracle Database Vault helps to protect against compromised privilege user account attacks by using realms, factors, and command rules. Combined, these provide powerful security tools to help secure access to databases, applications, and sensitive information. You can combine rules and factors to control the conditions under which commands in the 58 allowed to execute, and to control access to data protected by a realm. For example, you can create rules and factors to control access to data based on IP addresses, the time of day, and specific program, such as JDBC, SQL Developer, or SQL*Plus. These can limit access to only those connections that pass these conditions. This can prevent unauthorized access to application data and access to the database by unauthorized applications. For example, you could define a rule to limit execution of the DROP TABLE statement to a specific IP address and host name.

1.6 How Oracle Database Vault Allows for Flexible Security Policies

Oracle Database Vault helps you design flexible security policies for your database.

For example, any database user who has the DBA role can use the DROP ANY TABLE system privilege granted to that role. Suppose an inexperienced administrator believes they are on a non-production database when they execute a DROP TABLE command and is instead on the production system and drops a critical application table. This will probably cause an application outage, data loss, and hours to recover from. With Oracle Database Vault, you can create a command rule to prevent this user from making such modifications by limiting their usage of the DROP TABLE statement. Furthermore, you can attach rule sets to the command rule to restrict activity further, such as limiting the statement's execution in the following ways:

