

NUMBERS A VERY SHORT INTRODUCTION VERY SHORT INTR Printable PDF

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Numbers are fundamental to our understanding of the world around us. They serve as the backbone of mathematics, science, technology, economics, and everyday life. From simple counting to complex algorithms, numbers help us quantify, analyze, and interpret information accurately and efficiently. In this article, we will explore the vast universe of numbers, their types, significance, and applications in various fields.

The Significance of Numbers in Daily Life

Numbers are omnipresent in our daily routines. We use them to manage finances, measure time, track health metrics, and navigate our environment. Here are some common ways numbers influence our lives:

- **Time Management:** Clocks and calendars help us organize daily activities.
- **Financial Transactions:** Banking, shopping, and investing rely heavily on numbers.
- **Health Monitoring:** Heart rate, blood pressure, and calorie counts are expressed numerically.
- **Navigation:** GPS systems use coordinates and distances to guide us.

Understanding numbers and their properties enhances our ability to make informed decisions and improve efficiency.

Types of Numbers

Numbers can be classified into various categories based on their properties and characteristics. Recognizing these types helps in understanding their roles and applications.

Natural Numbers

Natural numbers are the basic counting numbers starting from 1 and increasing infinitely: 1, 2, 3, 4, 5, ... They are used for counting objects and ordering.

Whole Numbers

Whole numbers include all natural numbers plus zero: 0, 1, 2, 3, 4, ... They are useful in representing quantities that can be zero or more.

Integers

Integers expand further to include negative numbers: ..., -3, -2, -1, 0, 1, 2, 3, ... They are crucial in representing loss, debt, or temperature below zero.

Rational Numbers

Numbers that can be expressed as a fraction of two integers, where the denominator is not zero. Examples include $\frac{1}{2}$, $-\frac{3}{4}$, 5, and 0.75.

Irrational Numbers

Numbers that cannot be expressed as a simple fraction; their decimal representations are non-repeating and non-terminating. Examples include π , $\sqrt{2}$, and e .

Real Numbers

All rational and irrational numbers combined. They encompass any number that can be represented on the number line.

Complex Numbers

Numbers consisting of a real part and an imaginary part, expressed as $a + bi$, where i is the square root of -1. Examples include $3 + 4i$ and $-2 - i$.

Properties of Numbers

Understanding the properties of numbers is essential for solving mathematical problems and applying them effectively.

Commutative Property

The order of numbers does not change the result:

- Addition: $a + b = b + a$
- Multiplication: $a \times b = b \times a$

Associative Property

Grouping does not affect the outcome:

- Addition: $(a + b) + c = a + (b + c)$
- Multiplication: $(a \times b) \times c = a \times (b \times c)$

Distributive Property

Multiplication distributes over addition:

- $a \times (b + c) = a \times b + a \times c$

Number Systems and Their Evolution

The development of number systems reflects humanity's quest for better tools to understand and manipulate quantities.

Ancient Number Systems

Early civilizations used different symbols and methods:

- Egyptians, Babylonians, and Mayans had their unique numeral systems.
- For example, Roman numerals used I, V, X, L, C, D, M to represent numbers.

Decimal System and Hindu-Arabic Numerals

The modern decimal system, originating from India and transmitted through Arabic scholars, revolutionized mathematics.

- Introduced the concept of zero as a number, enabling positional notation.
- Facilitated complex calculations and mathematical advancements.

Binary System

Fundamental to digital technology, the binary system uses only two digits: 0 and 1.

Applications of Numbers in Various Fields

Numbers underpin numerous disciplines, shaping innovations and solutions.

In Science and Engineering

- Measurements and units (meters, seconds, kilograms)
- Formulating theories and laws (Newton's laws, thermodynamics)
- Data analysis and statistical modeling

In Economics and Finance

- Budgeting, profit calculations, interest rates
- Stock market analysis and economic indicators
- Currency exchange and inflation measurement

In Technology and Computing

- Programming languages rely on number systems
- Data storage uses binary code
- Algorithms and encryption depend on mathematical principles

In Education and Research

- Mathematical modeling
- Scientific experiments and data interpretation
- Educational tools to teach numerical literacy

Interesting Facts About Numbers

- The number π (pi) is infinite and non-repeating; it's essential in geometry.
- The Fibonacci sequence appears in nature, like sunflower seeds and pinecones.
- Zero is a relatively recent invention in human history but vital for modern mathematics.
- Prime numbers are numbers greater than 1 divisible only by 1 and themselves; they are the building blocks of all natural numbers.

Conclusion

Numbers are more than mere symbols; they are the language of the universe. From the simplicity of counting to the complexity of quantum physics, numbers provide the framework for understanding reality. Recognizing their types, properties, and applications enhances our ability to analyze data, solve problems, and innovate across all sectors. Whether used in everyday tasks or advanced scientific research, numbers remain an indispensable part of human progress.

By mastering the fundamentals of numbers and their diverse forms, we equip ourselves with the tools necessary for personal growth and societal advancement. Embracing the world of numbers opens up endless possibilities for exploration, discovery, and innovation.

Numbers

Numbers are the fundamental building blocks of mathematics and science, serving as the language through which we quantify, measure, and understand the world around us. From ancient tally marks to modern computational algorithms, numbers underpin nearly every aspect of human knowledge and activity. This investigative piece explores the multifaceted nature of numbers, delving into their history, types, applications, and the profound impact they have on our understanding of reality.

The Historical Evolution of Numbers

Understanding numbers requires a journey through history, revealing how humanity developed increasingly sophisticated systems to count and calculate.

Ancient Beginnings

The earliest evidence of numerical systems dates back to prehistoric times, where simple tally marks found on bones and stones served as primitive counting tools. Ancient civilizations such as the Sumerians (circa 3000 BCE) developed the earliest known cuneiform numerals, primarily for record-keeping and trade.

The Rise of Formal Numeral Systems

- Egyptians: Used hieroglyphic numerals, a decimal system with specific symbols for 1, 10, 100, etc.
- Babylonians: Developed a base-60 (sexagesimal) system, which influenced time measurement and angles.
- Romans: Employed Roman numerals, which persisted into the medieval period but lacked a place value system.

Arabic Numerals and the Spread of the Zero

The introduction of Hindu-Arabic numerals (0-9) in India revolutionized mathematics. The concept of zero as a number and placeholder was critical, enabling the development of efficient algorithms and algebra. This system spread through Arab scholars to Europe during the Middle Ages, laying the groundwork for modern mathematics.

Classification of Numbers

Numbers can be classified into various types, each with unique properties and roles.

Natural Numbers

- Definition: Counting numbers starting from 1 (sometimes including zero).
- Example: 1, 2, 3, 4, 5, ...

Whole Numbers

- Definition: Natural numbers including zero.
- Example: 0, 1, 2, 3, 4, ...

Integers

- Definition: Whole numbers and their negative counterparts.
- Example: -3, -2, -1, 0, 1, 2, 3, ...

Rational Numbers

- Definition: Numbers expressible as a ratio of two integers, with a non-zero denominator.
- Example: $\frac{1}{2}$, $-\frac{3}{4}$, 5, 0.75

Irrational Numbers

- Definition: Numbers that cannot be expressed as a simple fraction; their decimal expansion is non-repeating and non-terminating.
- Example: $\sqrt{2}$, π , e

Real Numbers

- Definition: All rational and irrational numbers combined, representing points on the number line.

Complex Numbers

- Definition: Numbers comprising a real part and an imaginary part.
- Example: $3 + 4i$, where i is the imaginary unit satisfying $i^2 = -1$.

The Significance of Numbers in Science and Technology

Numbers are integral to scientific discovery, technological innovation, and everyday life.

Measurement and Quantification

From measuring distances to quantifying chemical reactions, numbers enable precise description and analysis.

Data Analysis and Statistics

- Numbers allow for the collection, interpretation, and visualization of data.
- Statistical measures such as mean, median, and standard deviation derive from numerical data.

Computing and Algorithms

- Binary code (0s and 1s) forms the foundation of digital technology.
- Algorithms rely on numerical computations for problem-solving, encryption, and machine learning.

Engineering and Architecture

Design, safety standards, and structural integrity depend heavily on numerical calculations.

Mathematical Concepts and Theories Involving Numbers

The study of numbers extends into complex theories that have shaped modern mathematics.

Number Theory

- Focuses on properties and relationships of integers.
- Key topics include prime numbers, divisibility, and congruences.

Prime Numbers

- Definition: Numbers greater than 1 with no positive divisors other than 1 and themselves.
- Significance: Central to cryptography and security algorithms.

Famous Problems and Theorems

- Goldbach's Conjecture: Every even integer greater than 2 can be expressed as the sum of two primes.
- Fermat's Last Theorem: No three positive integers a , b , c satisfy $a^n + b^n = c^n$ for $n > 2$.
- The Riemann Hypothesis: Concerns the distribution of prime numbers.

Mathematical Constants

- Pi (π): The ratio of a circle's circumference to its diameter (~ 3.14159).
- Euler's Number (e): The base of natural logarithms (~ 2.71828).
- The Golden Ratio (ϕ): An irrational number (~ 1.61803), appearing in art, architecture, and nature.

The Role of Numbers in Modern Society

Numbers influence many societal facets, from economics to culture.

Economics and Finance

- Currency, interest rates, and stock indices are numerical constructs.
- Data-driven decision-making relies on quantitative analysis.

Education and Communication

- Numeracy is a fundamental skill.
- Numbers facilitate clear communication of data, statistics, and scientific concepts.

Culture and Philosophy

- Numbers have symbolic meanings in various cultures.
- Philosophical debates explore the nature of mathematical reality?are numbers discovered or invented?

Challenges and Frontiers in Numerical Research

Despite centuries of study, numerous open questions and challenges remain.

Distribution of Prime Numbers

Understanding the pattern of primes continues to be a major focus, with implications for cryptography.

Computational Limitations

- Large-scale numerical computation pushes the boundaries of hardware and algorithms.
- Quantum computing promises to revolutionize numerical processing.

Mathematical Foundations

- Ongoing research seeks to clarify the foundations of mathematics, including the nature of infinity and the continuum hypothesis.

Conclusion

Numbers are more than mere symbols; they are the essence of quantitative understanding. Their evolution reflects human ingenuity and the quest to decode the universe. As science and technology advance, the role of numbers will only deepen, driving innovation and expanding our comprehension of reality. Whether through the simple act of counting or the complex frameworks of modern mathematics, numbers remain at the heart of human progress.

Question What is the basic concept of numbers in mathematics? Numbers are abstract symbols used to count, measure, and label objects or quantities in mathematics. **Answer** Why are numbers

considered fundamental in mathematics? Because they form the foundation for all mathematical operations, calculations, and the development of mathematical theories. What are the main types of numbers? The main types include natural numbers, whole numbers, integers, rational numbers, irrational numbers, and real numbers. What is a very short introduction to number systems? Number systems are ways to represent numbers, such as decimal, binary, octal, and hexadecimal, each with its own base. How are numbers used in everyday life? Numbers are used in shopping, measuring ingredients, telling time, budgeting, and many other daily activities. What is the significance of prime numbers? Prime numbers are fundamental because they are the building blocks of all natural numbers through multiplication. How do negative numbers differ from positive numbers? Negative numbers represent values less than zero, often indicating loss, decrease, or direction opposite to positive numbers. What is an irrational number? An irrational number cannot be expressed as a simple fraction and has a non-repeating, non-terminating decimal expansion, like π or $\sqrt{2}$. Why are numbers important in science and technology? Numbers are crucial for measurements, data analysis, algorithms, and calculations that drive scientific discoveries and technological advancements.

Related keywords: numbers, mathematics, introduction, short, basics, digits, arithmetic, numerals, concepts, overview

Oracle fnd documents short text

oracle fnd documents short text is a commonly searched term by Oracle E-Business Suite (EBS) users and administrators seeking concise information about FND (Foundation) documents within the Oracle environment. Understanding how to efficiently access, interpret, and manage these short texts is crucial for maintaining seamless application functionality, troubleshooting issues, and ensuring effective communication across modules. This article provides an in-depth exploration of Oracle FND documents short text, covering its purpose, structure, usage, and best practices for managing these essential components.

Understanding Oracle FND Documents Short Text

What Are FND Documents?

In Oracle E-Business Suite, FND (Foundation) documents are standardized pieces of data used across various modules to support configuration, messaging, and processing. These documents often contain essential information such as error messages, labels, descriptions, and short texts that facilitate user interaction and system operations.

The Role of Short Texts in FND Documents

The short text within FND documents serves as a concise, easily understandable snippet of information that summarizes or labels a particular message or data element. This short text is typically used in user interfaces, notifications, and logs to quickly convey the essence of the message without overwhelming users with lengthy descriptions.

Key purposes of FND document short texts include:

- Providing quick, readable labels for form fields or options.
- Summarizing error or informational messages.
- Facilitating localization by enabling easy translation of concise texts.
- Enhancing user experience by reducing clutter and improving clarity.

Structure and Components of FND Documents Short Texts

Basic Structure of FND Documents

FND documents are stored within Oracle EBS's database tables, primarily in the `FND\_DOCUMENTS` and `FND\_DOCUMENTS\_TL` tables. These tables contain core information and translations, respectively.

Key tables involved:

- `FND\_DOCUMENTS`: Stores document identifiers, types, and core attributes.
- `FND\_DOCUMENTS\_TL`: Stores translated or localized text for different languages.

Components of Short Texts

A typical FND document short text consists of:

- Document Name/ID: Unique identifier for the document.
- Language Code: Specifies the language for the short text.
- Short Text Content: The concise message or label.
- Description: Additional details, often optional.
- Effective Dates: Validity period of the short text.

Example:

| Column Name | Description |

|-----|-----|

| DOCUMENT_NAME | Unique identifier like 'ERR_INV001' |

| LANGUAGE_CODE | 'US' for English (United States) |

| SHORT_TEXT | 'Invalid input' |

| DESCRIPTION | 'Error message for invalid user input' |

| START_DATE | Date from which the text is valid |

| END_DATE | Date until the text is valid |

Usage of FND Document Short Texts in Oracle EBS

Application in User Interface

Short texts are used extensively in forms, menus, and notifications to:

- Display labels for fields.
- Show error messages or warnings.
- Present status updates or informational messages.

Example: When a user enters invalid data, the system may display a short text like "Input error" to communicate the issue promptly.

Application in Messaging and Logging

Short texts facilitate quick identification of messages in system logs, aiding in troubleshooting and auditing.

Localization and Multilingual Support

Because short texts are stored with language codes, they support localization efforts, enabling the interface and messages to adapt to users' language preferences.

Managing FND Documents Short Texts

Creating and Updating Short Texts

To create or modify short texts, administrators typically:

- Use Oracle Applications Developer or similar tools.
- Access the `FND\_DOCUMENTS\_TL` table directly via SQL for advanced management.
- Use the Oracle EBS System Administrator responsibilities to manage translations and texts.

Steps to create a new short text:

- Define a unique document name or ID.
- Specify the language code.
- Enter the concise message in the `SHORT\_TEXT` field.
- Set the effective date range.
- Save the record to make it available system-wide.

Best Practices for Managing Short Texts

- Consistency: Use standardized language and terminology across all texts.
- Clarity: Keep messages brief but informative.
- Localization: Ensure translations are accurate and contextually appropriate.
- Version Control: Track changes and maintain historical records for audit purposes.
- Validation: Regularly review short texts for relevance and correctness.

Common Tools and Techniques

- Application Developer: For creating and editing documents within the Oracle EBS interface.
- SQL Scripts: For bulk updates or extraction of short texts.
- FNDLOAD Utility: A command-line tool for exporting/importing document definitions, including short texts.
- Workflow and Notifications: Incorporate short texts into workflows for automated messaging.

Best Practices and Troubleshooting

Ensuring Data Integrity

- Regularly validate the consistency of short texts across different languages.
- Maintain proper date ranges to avoid displaying outdated messages.

Handling Missing or Incorrect Short Texts

- Verify if the document exists in `FND\_DOCUMENTS\_TL`.
- Check effective dates and language codes.
- Use SQL queries to identify missing translations, e.g.:

```
```sql  

SELECT FROM FND_DOCUMENTS_TL

WHERE DOCUMENT_NAME = 'ERR_INV001'

AND LANGUAGE_CODE = 'US';

```
```

- Update or add missing entries as needed.

Performance Optimization

- Index the `FND\_DOCUMENTS\_TL` table on document name and language code.
- Clean up obsolete or unused texts periodically.

Conclusion

Oracle FND documents short text is a vital element in the Oracle E-Business Suite ecosystem, contributing significantly to user interface clarity, system messaging, and localization efforts. Proper management of these short texts ensures a more efficient and user-friendly environment, reduces errors, and enhances overall system performance. Whether you're a system administrator, developer, or functional consultant, understanding the structure, usage, and management of FND document short texts is essential for maintaining a robust Oracle EBS deployment.

Key Takeaways:

- Short texts are concise messages stored within FND documents.
- They support localization, usability, and troubleshooting.
- Proper management involves creation, updates, validation, and periodic review.
- Tools like FNDLOAD and SQL scripts facilitate efficient handling.
- Best practices ensure consistency, clarity, and system integrity.

By mastering the concepts and techniques outlined in this article, Oracle EBS users and administrators can optimize the use and management of FND document short texts, leading to improved system performance and user satisfaction.

Oracle FND Documents Short Text: An In-Depth Review and Guide

Oracle E-Business Suite's Foundation (FND) module plays a pivotal role in managing core system functionalities, including security, user management, and configuration. Among its myriad features, the handling and management of FND documents short text is a critical aspect that often puzzles users and administrators alike. This comprehensive review aims to demystify what FND documents short text entails, its significance, management practices, common issues, and best practices to optimize its use within Oracle EBS.

Understanding Oracle FND Documents Short Text

What is FND Documents Short Text?

FND Documents Short Text is a concise, descriptive field used within Oracle E-Business Suite to provide brief, meaningful summaries or titles for various documents, records, or transactions stored within the FND schema. It acts as a quick reference or identifier, allowing users to easily recognize and differentiate documents without delving into detailed content.

Typically, this short text:

- Serves as a summary or caption for a document, record, or transaction.
- Is stored in the FND_DOCUMENTS table, primarily in the SHORT_TEXT column.
- Is used across multiple modules, especially in areas like approvals, notifications, and document management.

This field is designed to enhance usability by providing a human-readable, easily scannable label, which is essential in environments handling thousands of documents and records.

The Role and Significance of Short Text in Oracle FND

Why is Short Text Important?

The short text attribute plays several vital roles within the Oracle EBS environment:

- Quick Identification: It allows users to quickly identify the purpose or nature of a document without opening detailed records.
- Improved User Experience: Simplifies navigation and search processes, especially in approval workflows or when retrieving documents.
- Reporting & Auditing: Facilitates reporting by providing meaningful labels that can be used in queries, logs, and audit trails.
- Consistency & Standardization: Ensures that documents are labeled uniformly, aiding in compliance and process standardization.

Typical Use Cases

- Document Management: Short text labels for uploaded or generated documents such as invoices, receipts, or correspondence.
- Workflow Approvals: Brief descriptions of approval requests or notifications.
- Error & Exception Tracking: Short descriptions of issues or alerts generated within the system.
- Custom Records: User-defined documents or records created via custom modules or extensions.

Managing FND Documents Short Text

Creating and Updating Short Text

Managing the short text effectively involves understanding where and how to set or modify this attribute:

- During Document Creation: When new documents are uploaded or generated via forms, APIs, or custom code, the short text is usually provided as part of the creation process.
- Via API Calls: Developers can set or update the short text using specific APIs like `FND_DOCUMENTS_PUB.Create_Document``.
- Manual Updates: Administrators or power users can update the short text directly through SQL scripts or through custom interfaces, with caution.

Best Practices for Managing Short Text

- Use Clear and Concise Descriptions: The short text should be meaningful yet brief, ideally not exceeding 50 characters.
- Maintain Consistency: Follow naming conventions or labeling standards across the organization.
- Update Regularly: When document content or context changes, update the short text to reflect the current status or description.
- Automate When Possible: Use APIs or scripts to populate short text fields during batch processing or integrations, reducing manual errors.

Common Methods to Handle Short Text

- Using SQL: Direct updates via SQL scripts (not recommended unless necessary and with proper backups).
- Using API: Preferred method for creating or updating documents programmatically.
- Using Forms: Oracle EBS forms or custom interfaces designed for document management.

Technical Aspects and Table Structures

FND_DOCUMENTS Table Overview

The core table where document-related data, including short text, is stored is FND_DOCUMENTS. Key columns include:

- DOCUMENT_ID: Unique identifier for each document.
- SHORT_TEXT: The brief description or title of the document.
- FILE_NAME: Name of the uploaded or stored file.
- DOCUMENT_TYPE: Type/category of the document.
- CREATION_DATE: When the document was created.
- LAST_UPDATE_DATE: Last modification timestamp.

Data Integrity and Constraints

- The SHORT_TEXT is typically constrained to a specific length (often 50 characters), ensuring standardization.
- Proper indexing on DOCUMENT_ID facilitates quick retrieval.
- Referential integrity is maintained via foreign keys to other tables like FND_DOCUMENTS_TL for multilingual support.

Challenges and Common Issues with FND Documents Short Text

1. Inconsistent or Vague Short Texts

- Caused by manual entry errors or lack of standards.
- Leads to difficulty in document identification and retrieval.

2. Length Limitations

- The character limit may restrict descriptive detail.
- Users may resort to abbreviations that can be ambiguous.

3. Multilingual Support Concerns

- When supporting multiple languages, short text must be maintained across translations.
- FND's multilingual tables (e.g., FND_DOCUMENTS_TL) are used, which require careful synchronization.

4. Performance Impact

- Excessively long or numerous short texts can affect query performance, especially in large environments.

5. Synchronization and Data Consistency

- Ensuring that short text updates are reflected across all relevant modules and reports.

Best Practices for Optimizing FND Documents Short Text

1. Standardization

- Develop organizational standards for naming conventions.
- Use templates or predefined phrases to ensure uniformity.

2. Validation

- Implement validation routines to prevent overly long or vague descriptions.
- Use check constraints or application-level validations.

3. Automation

- Leverage APIs for consistent and error-free updates.
- Automate batch updates for large document sets.

4. Multilingual Management

- Maintain translations in FND_DOCUMENTS_TL.
- Use consistent terminology across languages.

5. Regular Audits

- Periodically review documents' short texts for accuracy and relevance.
- Remove or archive outdated descriptions.

Integrating Short Text with Other Oracle EBS Components

Workflow and Approvals

- Short text is often displayed in approval notifications, dashboards, and worklists.
- Proper labeling improves decision-making efficiency.

Reporting and Analytics

- Short text fields are included in reports for summaries and summaries.
- They enable quick filtering and categorization.

Custom Development

- Developers should ensure that custom modules or integrations correctly handle the SHORT_TEXT attribute.
- When creating custom documents or records, always populate the short text for clarity.

Conclusion and Final Thoughts

The FND documents short text field, though seemingly simple, is a fundamental component of Oracle E-Business Suite's document management and communication ecosystem. Its proper management ensures that users can efficiently identify, search, and utilize documents, ultimately contributing to smoother workflows, better compliance, and more effective data management.

To leverage its full potential:

- Emphasize standardization and clarity.
- Use robust APIs and automation tools.
- Maintain multilingual consistency.
- Regularly audit and update descriptions.

By doing so, organizations can significantly enhance their operational efficiency and data clarity within Oracle EBS, avoiding common pitfalls and maximizing the value derived from their document management practices.

In essence, mastering the management of FND documents short text is crucial for administrators, developers, and end-users aiming for a streamlined, consistent, and effective Oracle E-Business Suite environment.

QuestionAnswer What are Oracle FND documents short text used for? Oracle FND documents short text are used to provide concise descriptions or summaries of various components, such as profiles, messages, or setup instructions within the Oracle E-Business Suite, facilitating quick understanding and reference. How can I modify the short text for an Oracle FND document? You can modify the short text by accessing the relevant form or table within Oracle Applications, such as the System Profiles or Messages window, and updating the description or text fields accordingly. Where are Oracle FND documents short texts stored? Short texts for Oracle FND documents are stored within the database tables associated with the specific modules, such as FND_DEFINITION or FND_MESSAGES, allowing for easy retrieval and management. Can I customize the short text in Oracle FND documents for different environments? Yes, customization is possible by updating the short texts in the database or through the Application Developer tools, enabling environment-specific descriptions or instructions as needed. Are there best practices for managing Oracle FND document short texts? Best practices include maintaining consistency in terminology, documenting changes properly, and ensuring that short texts are clear, concise, and accurately reflect the purpose of the documents to improve user understanding.

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