



# Winter TopTen™ Survey 2005

PLEASE ANSWER ALL QUESTIONS

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## I. RESPONDENT PROFILE

Title: \_\_\_\_\_ First Name:\* \_\_\_\_\_ Last Name:\* \_\_\_\_\_

Job Title:\* \_\_\_\_\_ Company/Organization:\* \_\_\_\_\_

Street Address:\* \_\_\_\_\_

City:\* \_\_\_\_\_ State/Province:\* \_\_\_\_\_

Zip/Postal Code:\* \_\_\_\_\_ Country:\* \_\_\_\_\_

Industry:\* \_\_\_\_\_

Work Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail: (read only) \_\_\_\_\_ Company/Organizatoin URL: \_\_\_\_\_

If you wish your survey response to be posted anonymously, please check here.

## II. DATABASE OVERVIEW

1. What is the name of the database?\* (read only) \_\_\_\_\_

2. What is the status of the database project?\* (select one)

In production       Pilot use       Under development

3. If in production, for how long?\*

< 1 year       1-2 years       2-3 years       3-5 years       > 5 years

4. What is the database primarily used for?\* (select one)

Operational system/transaction processing/ecommerce       Business intelligence/data warehousing/decision support

Scientific/engineering analysis/reference       Content/document store, unstructured data repository (XML, email, etc.)

Other (specify) \_\_\_\_\_

5. How frequently is the database updated?\*

Read only – Never/rarely updated after initial load       Daily  
 Monthly or less frequently       Multiple times per day  
 Weekly       Continuously

6. How many applications are supported by the database?\*

1       2-3       4-6       7-10       > 10

7. What is the database architecture?\*

Centralized       Hub and spoke       Distributed       Federated

8. What DBMS product *primarily* supports the database?\* (select one) \_\_\_\_\_

9. What is the version number of the DBMS product?\* \_\_\_\_\_

## III. DATABASE CHARACTERISTICS

10. How large is the database?\*

User data (in tables) \_\_\_\_\_ GB       Summaries and Aggregates \_\_\_\_\_ GB  
 Indices \_\_\_\_\_ GB       Redundancy \_\_\_\_\_ GB  
 Temporary/work space \_\_\_\_\_ GB      OR:  
 Free/Other space \_\_\_\_\_ GB       Total Space \_\_\_\_\_ GB

11. How much user data (in GB) is managed by this database? \_\_\_\_\_

12. How many tables does the database contain?\* \_\_\_\_\_

13. How many total rows/records/objects does the database contain (in millions)?\* \_\_\_\_\_ 000,000

\* = required

- 14. How much data is stored in the largest table? \_\_\_\_\_GB
- 15. How many rows/records/objects are stored in the largest table (in millions)? \_\_\_\_\_000,000
- 16. How many users connect to this database, regularly or occasionally, as part of their job?\* \_\_\_\_\_
- 17. How many users are concurrently connected to the database on average?\* \_\_\_\_\_ At peak?\* \_\_\_\_\_
- 18. How many SQL statements or database operations are executed on the database in an average hour?\* \_\_\_\_\_ in the peak hour?\* \_\_\_\_\_
- 19. How many database transactions are executed on the database in an average hour? \_\_\_\_\_ in the peak hour?\* \_\_\_\_\_

**IV. HARDWARE AND OPERATING SYSTEM**

- 20. What is the architecture of the server (or servers) that supports the database?\*
  - Symmetric Multiprocessing (SMP)                       Cluster
  - Massively Parallel Processing (MPP)                       Uniprocessor
- 21. Describe the configuration of each node (separate computer) in the system.\*

Number of nodes with configuration	Manufacturer	Model	Number processors	Processor type	Memory size (GB)
				<input type="checkbox"/> 32-bit <input type="checkbox"/> 64-bit	
				<input type="checkbox"/> 32-bit <input type="checkbox"/> 64-bit	
				<input type="checkbox"/> 32-bit <input type="checkbox"/> 64-bit	

- 22. What operating system runs on the server or servers?\* (specify name or distribution, and version)
  - UNIX: \_\_\_\_\_  z/OS or OS/390: \_\_\_\_\_
  - Windows: \_\_\_\_\_  OS/400: \_\_\_\_\_
  - Linux: \_\_\_\_\_  Other: \_\_\_\_\_

- 23. Describe the disk configuration that stores the database.\*

Architecture	Manufacturer	Model	Capacity (TB)	Primary vendor
<input type="checkbox"/> Networked <input type="checkbox"/> Direct attach				<input type="checkbox"/>
<input type="checkbox"/> Networked <input type="checkbox"/> Direct attach				<input type="checkbox"/>
<input type="checkbox"/> Networked <input type="checkbox"/> Direct attach				<input type="checkbox"/>
<input type="checkbox"/> Networked <input type="checkbox"/> Direct attach				<input type="checkbox"/>

- 24. What storage management software product do you primarily use?  
Vendor \_\_\_\_\_ Product Name \_\_\_\_\_

**V. DATABASE AND SYSTEM GROWTH**

- 25. Estimate the total database size (excluding redundancy) for each of the next three years.  
2006: \_\_\_\_\_GB                      2007: \_\_\_\_\_GB                      2008: \_\_\_\_\_GB
- 26. Estimate the peak number of SQL statements (database operations) per hour that will be executed on the database in each of the next three years.  
2006: \_\_\_\_\_SQL stmnts/hr                      2007: \_\_\_\_\_SQL stmnts/hr                      2008: \_\_\_\_\_SQL stmnts/hr

\* = required

27. Estimate the peak number of database transactions per hour that will be executed on the database in each of the next three years?  
 2006: \_\_\_\_\_ trans/hr      2007: \_\_\_\_\_ trans/hr      2008: \_\_\_\_\_ trans/hr
28. Estimate the number of processors that will be used by the database in each of the next three years.  
 2006: \_\_\_\_\_ processors      2007: \_\_\_\_\_ processors      2008: \_\_\_\_\_ processors
29. Estimate the storage capacity in TB that will be used by the database in each of the next three years.  
 2006: \_\_\_\_\_ TB      2007: \_\_\_\_\_ TB      2008: \_\_\_\_\_ TB
30. What vendor will you use to support your future server growth?  
 Vendor (select one) \_\_\_\_\_ Other (specify) \_\_\_\_\_  
 Don't know
31. What vendor will you use to support your future storage growth?  
 Vendor (select one) \_\_\_\_\_ Other (specify) \_\_\_\_\_  
 Don't know

**VI. DATABASE SATISFACTION**

32. The largest business benefits we have achieved by implementation of this database project are: (check all that apply)  
*For each item checked, indicate the magnitude of the benefit on a 1-5 scale (1=low, 3=medium, 5=high)*
- |                                                                     |   |   |   |   |   |
|---------------------------------------------------------------------|---|---|---|---|---|
| <input type="checkbox"/> Increased revenue                          | 1 | 2 | 3 | 4 | 5 |
| <input type="checkbox"/> Increased profit                           | 1 | 2 | 3 | 4 | 5 |
| <input type="checkbox"/> Reduced cost                               | 1 | 2 | 3 | 4 | 5 |
| <input type="checkbox"/> Increased customer satisfaction            | 1 | 2 | 3 | 4 | 5 |
| <input type="checkbox"/> Improved product/service quality           | 1 | 2 | 3 | 4 | 5 |
| <input type="checkbox"/> Reduced time to market for product/service | 1 | 2 | 3 | 4 | 5 |
| <input type="checkbox"/> Increased market share                     | 1 | 2 | 3 | 4 | 5 |
| <input type="checkbox"/> Other (specify) _____                      | 1 | 2 | 3 | 4 | 5 |
| <input type="checkbox"/> Other (specify) _____                      | 1 | 2 | 3 | 4 | 5 |
33. The biggest problems I am currently experiencing with my large database projects are: (check all that apply)  
*For each item checked, indicate the magnitude of the problem on a 1-5 scale (1=small, 3=medium, 5=large)*
- |                                                                        |   |   |   |   |   |
|------------------------------------------------------------------------|---|---|---|---|---|
| <input type="checkbox"/> Scalability                                   | 1 | 2 | 3 | 4 | 5 |
| <input type="checkbox"/> Response time or query throughput             | 1 | 2 | 3 | 4 | 5 |
| <input type="checkbox"/> Cost of managing and maintaining the database | 1 | 2 | 3 | 4 | 5 |
| <input type="checkbox"/> Data quality, such as data inconsistencies    | 1 | 2 | 3 | 4 | 5 |
| <input type="checkbox"/> Data currency                                 | 1 | 2 | 3 | 4 | 5 |
| <input type="checkbox"/> Ease of developing or modifying applications  | 1 | 2 | 3 | 4 | 5 |
| <input type="checkbox"/> Ease of modifying the database design         | 1 | 2 | 3 | 4 | 5 |
| <input type="checkbox"/> Other (specify) _____                         | 1 | 2 | 3 | 4 | 5 |
| <input type="checkbox"/> Other (specify) _____                         | 1 | 2 | 3 | 4 | 5 |
34. I believe that my current infrastructure: (choose one)  
 Can handle my requirements over the next 3 years  
 Cannot handle my future requirements and I plan to migrate to another platform  
 Cannot handle my future requirements and I don't know what to do
35. I would be willing to participate in Winter Corp. research on the benefits and ROI that I have derived from these large-scale database applications, in exchange for receiving the study findings.  
 Yes       No
36. How did you hear about the TopTen Program?\*
- |                                                     |                                                           |                                                |
|-----------------------------------------------------|-----------------------------------------------------------|------------------------------------------------|
| <input type="checkbox"/> Past Program Participant   | <input type="checkbox"/> Winter Corp. Personalized Letter | <input type="checkbox"/> Industry Publication  |
| <input type="checkbox"/> Winter Corp. Press Release | <input type="checkbox"/> Winter Corp. Web Site            | (print or electronic)                          |
| <input type="checkbox"/> Winter Corp. Post Card     | <input type="checkbox"/> DBMS/Server/Storage Vendor       | <input type="checkbox"/> Other (specify) _____ |

\* = required