

### **Querying Database Information**

This guide outlines procedures and scripts for querying various database information using SQL commands and scripts.

**Note:** Replace <username> and <password> with your actual credentials and adjust commands based on your specific database environment.

## **Privileges Required:**

Most of the following queries require **SELECT** privilege on relevant tables and views. Some queries might require additional privileges depending on the specific database and desired information.

## **Executing Saved Scripts:**

- 1. Save the script as a .sql file.
- 2. Connect to your database using a SQL client tool (e.g., SQL\*Plus, pgAdmin).
- 3. **Execute the script** using the appropriate command in your client tool. For example, in SQL\*Plus: @your script.sql

Note that I have provided two scripts:

### **Comparison:**

- Focus: Script 1 is more specific, targeting relevant information for analyzing redo log members. Script 2 provides comprehensive details but might be overwhelming for quick analysis.
- **Readability:** Script 1 enhances readability with formatting and filtering, while Script 2 requires scrolling through potentially irrelevant data.
- **Performance:** Script 1 might be slightly slower due to filtering and joining tables, while Script 2 is faster as it retrieves all data directly.

#### Choosing the optimal script depends on your specific needs:

- If you need a quick overview of all redo log members: Use Script 2.
- If you want to focus on specific details and improve readability: Use Script 1.

#### Additional considerations:

- **Customization:** Script 1 can be further customized by adjusting the selected columns, formatting options, and filtering criteria based on your specific requirements.
- **Database environment:** Ensure compatibility of the scripts with your specific database version and configuration.

### 1. Get Redo Log Member Information:

## Script 1:

```
col member for a56
set pagesize 299
set lines 299
select l.group#, l.thread#,
f.member,
l.archived,
l.status,
(bytes/1024/1024) "Size (MB)"
from
v$log l, v$logfile f
where f.group# = l.group#
order by 1,2
//
```

#### Script 2:

```
SELECT * FROM v$logfile;
```

### 2. Get DDL of All Tablespaces:

```
set heading off;
set echo off;
Set pages 999;
set long 90000;
```

```
spool ddl_tablespace.sql
select dbms_metadata.get_ddl('TABLESPACE',tb.tablespace_name)
from dba_tablespaces tb;
spool off
```

```
SELECT dbms_metadata.get_ddl('TABLESPACE', tablespace_name) AS ddl
FROM dba tablespaces;
```

### 3. Get DDL of All Privileges Granted to User:

#### Script 1:

```
set feedback off pages 0 long 900000 lines 20000 pagesize 20000
serveroutput on
accept USERNAME prompt "Enter username :"
--This line add a semicolon at the end of each statement
execute
dbms METADATA.SET TRANSFORM PARAM (DBMS METADATA.SESSION TRANSFOR
M, 'SQLTERMINATOR', true);
-- This will generate the DDL for the user and add his
objects, system and role grants
SELECT DBMS METADATA.GET DDL('USER', username) as script from
DBA USERS where username='&username'
UNION ALL
SELECT DBMS METADATA.GET GRANTED DDL('SYSTEM GRANT', grantee) as
script from DBA SYS PRIVS where grantee='&username' and rownum=1
UNION ALL
SELECT DBMS METADATA.GET GRANTED DDL('ROLE GRANT', grantee) as
script from DBA ROLE PRIVS where grantee='&username' and
rownum=1
UNION ALL
SELECT DBMS METADATA.GET GRANTED DDL('OBJECT GRANT', grantee) as
script from DBA TAB PRIVS where grantee='&username' and
rownum=1;
```

```
SELECT * FROM user grants;
```

#### 4. Get Size of the Database:

## Script 1:

```
col "Database Size" format a20
col "Free space" format a20
col "Used space" format a20
select round(sum(used.bytes) / 1024 / 1024 / 1024 ) || 'GB'
"Database Size"
, round(sum(used.bytes) / 1024 / 1024 / 1024 ) -
round(free.p / 1024 / 1024 / 1024) || 'GB' "Used space"
, round(free.p / 1024 / 1024 / 1024) || 'GB' "Free space"
from (select bytes
from v$datafile
union all
select bytes
from v$tempfile
union all
select bytes
from v$log) used
, (select sum(bytes) as p
from dba free space) free
group by free.p
```

### Script 2:

```
SELECT SUM(bytes) / (1024 * 1024 * 1024) AS size_gb FROM dba_data_files;
```

## 5. View Hidden Parameter Setting:

### Script 1:

```
Set lines 2000

col NAME for a45

col DESCRIPTION for a100

SELECT name, description from SYS.V$PARAMETER WHERE name LIKE

'\_%' ESCAPE '\'
```

```
SELECT name, value FROM v$parameter WHERE name =
'<parameter_name>';
```

#### 6. Get ACL Details in Database:

### Script 1:

```
Set lines 200

COL ACL_OWNER FOR A12

COL ACL FOR A67

COL HOST FOR A34

col PRINCIPAL for a20

col PRIVILEGE for a13

select ACL_OWNER, ACL, HOST, LOWER_PORT, UPPER_PORT FROM

dba_network_acls;

select ACL_OWNER, ACL, PRINCIPAL, PRIVILEGE from

dba_network_acl_privileges;
```

## Script 2:

```
SELECT * FROM dba_users_roles;
```

## 7. Archive Generation per Hour:

```
set lines 299
SELECT TO CHAR (TRUNC (FIRST TIME), 'Mon DD') "DG Date",
TO CHAR(SUM(DECODE(TO CHAR(FIRST TIME, 'HH24'), '00', 1,0)), '9999')
"12AM",
TO CHAR (SUM (DECODE (TO CHAR (FIRST TIME, 'HH24'), '01', 1, 0)), '9999')
"01AM",
TO CHAR(SUM(DECODE(TO CHAR(FIRST TIME, 'HH24'), '02', 1, 0)), '9999')
"02AM",
TO CHAR(SUM(DECODE(TO CHAR(FIRST TIME, 'HH24'), '03', 1,0)), '9999')
"03AM",
TO CHAR (SUM (DECODE (TO CHAR (FIRST TIME, 'HH24'), '04', 1, 0)), '9999')
"04AM",
TO CHAR(SUM(DECODE(TO CHAR(FIRST TIME, 'HH24'), '05', 1,0)), '9999')
"05AM",
TO CHAR(SUM(DECODE(TO CHAR(FIRST TIME, 'HH24'), '06', 1,0)), '9999')
"06AM",
TO CHAR (SUM (DECODE (TO CHAR (FIRST TIME, 'HH24'), '07', 1, 0)), '9999')
"07AM",
TO CHAR(SUM(DECODE(TO CHAR(FIRST TIME, 'HH24'), '08', 1,0)), '9999')
"08AM",
TO CHAR(SUM(DECODE(TO CHAR(FIRST TIME, 'HH24'), '09', 1, 0)), '9999')
"09AM",
TO CHAR (SUM (DECODE (TO CHAR (FIRST TIME, 'HH24'), '10', 1, 0)), '9999')
"10AM",
TO CHAR(SUM(DECODE(TO CHAR(FIRST TIME, 'HH24'), '11', 1, 0)), '9999')
"11AM",
TO CHAR(SUM(DECODE(TO CHAR(FIRST TIME, 'HH24'), '12', 1,0)), '9999')
"12PM",
TO CHAR (SUM (DECODE (TO CHAR (FIRST TIME, 'HH24'), '13', 1, 0)), '9999')
"1PM",
TO CHAR(SUM(DECODE(TO CHAR(FIRST TIME, 'HH24'), '14', 1,0)), '9999')
"2PM",
TO CHAR (SUM (DECODE (TO CHAR (FIRST TIME, 'HH24'), '15', 1, 0)), '9999')
TO CHAR (SUM (DECODE (TO CHAR (FIRST TIME, 'HH24'), '16', 1, 0)), '9999')
"4PM",
TO CHAR (SUM (DECODE (TO CHAR (FIRST TIME, 'HH24'), '17', 1, 0)), '9999')
"5PM",
TO CHAR (SUM (DECODE (TO CHAR (FIRST TIME, 'HH24'), '18', 1, 0)), '9999')
"6PM",
TO CHAR (SUM (DECODE (TO CHAR (FIRST TIME, 'HH24'), '19', 1, 0)), '9999')
"7PM",
TO CHAR (SUM (DECODE (TO CHAR (FIRST TIME, 'HH24'), '20', 1,0)), '9999')
"8PM",
```

```
TO_CHAR(SUM(DECODE(TO_CHAR(FIRST_TIME, 'HH24'), '21', 1, 0)), '9999')
"9PM",

TO_CHAR(SUM(DECODE(TO_CHAR(FIRST_TIME, 'HH24'), '22', 1, 0)), '9999')
"10PM",

TO_CHAR(SUM(DECODE(TO_CHAR(FIRST_TIME, 'HH24'), '23', 1, 0)), '9999')
"11PM"

FROM V$LOG_HISTORY

GROUP BY TRUNC(FIRST_TIME)

ORDER BY TRUNC(FIRST_TIME) DESC
/
```

```
SELECT created, COUNT(*) AS archives
FROM dba_data_archives
GROUP BY TO_CHAR(created, 'YYYY-MM-DD HH24')
ORDER BY created;
```

#### 8. Find Active Transactions in DB:

```
col name format a10
col username format a8
col osuser format a8
col start_time format a17
col status format a12
tti 'Active transactions'
select s.sid,username,t.start_time, r.name, t.used_ublk "USED
BLKS",
decode(t.space, 'YES', 'SPACE TX',
decode(t.recursive, 'YES', 'RECURSIVE TX',
decode(t.noundo, 'YES', 'NO UNDO TX', t.status)
)) status
from sys.v_$transaction t, sys.v_$rollname r, sys.v_$session s
where t.xidusn = r.usn
and t.ses_addr = s.saddr
//
```

```
SELECT * FROM v$session WHERE status = 'ACTIVE';
```

#### 9. Find Who Locked Your Account:

### Script 1:

```
-- Return code 1017 ( INVALID LOGIN ATTEMPT)
-- Return code 28000 ( ACCOUNT LOCKED)
set pagesize 1299
set lines 299
col username for a15
col userhost for a13
col timestamp for a39
col terminal for a23
SELECT username, userhost, terminal, timestamp, returncode
FROM dba_audit_session
WHERE username='&USER_NAME' and returncode in (1017,28000);
```

## Script 2:

```
SELECT s.username, l.session_id, l.blocking_session_status
FROM v$session l, v$session s
WHERE l.blocking_session_status = 'ACTIVE'
AND l.blocking session status = s.sid;
```

## 10. Find Duplicate Rows in Table:

```
--- Reference metalink id - 332494.1
-- Save as duplicate.sql and run as @duplicate.sql

REM This is an example SQL*Plus Script to detect duplicate rows from

REM a table.

REM set echo off
set verify off heading off
undefine t
undefine c
prompt
```

```
prompt
prompt Enter name of table with duplicate rows
prompt
accept t prompt 'Table: '
prompt
select 'Table '||upper('&&t') from dual;
describe &&t
prompt
prompt Enter name(s) of column(s) which should be unique. If
more than
prompt one column is specified, you MUST separate with commas.
prompt
accept c prompt 'Column(s): '
prompt
select &&c from &&t
where rowid not in (select min(rowid) from &&t group by &&c)
//
```

```
SELECT * FROM your_table
GROUP BY column1, column2, ...
HAVING COUNT(*) > 1;
```

## 11. Generate Resize Datafile Script:

```
from v$parameter
where name='db_block_size') d
where a.file_id= b.file_id
and c.file_id = b.file_id
and c.block_id = b.maximum
order by a.tablespace_name, a.file_name);
```

```
ALTER DATABASE DATAFILE '<file name>' RESIZE <new size>M;
```

## 12. Database Growth per Month:

### Script 1:

```
select to_char(creation_time, 'MM-RRRR') "Month",
sum(bytes)/1024/1024/1024 "Growth in GB
from sys.v_$datafile
where to_char(creation_time, 'RRRR')='&YEAR_IN_YYYY_FORMAT'
group by to_char(creation_time, 'MM-RRRR')
order by to_char(creation_time, 'MM-RRRR');
```

### Script 2:

## 13. Get Database Uptime:

### Script 1:

```
select to_char(startup_time, 'DD-MM-YYYY
HH24:MI:SS'),floor(sysdate-startup_time) DAYS from v$Instance;
```

## 14. SCN to Timestamp and Vice Versa:

#### Script 1:

```
-- Get current scn value:
select current_scn from v$database;
-- Get scn value at particular time:
select timestamp_to_scn('19-JAN-24:22:00:10') from dual;
-- Get timestamp from scn:
select scn_to_timestamp(224292) from dual;
```

### Script 2:

```
SELECT TO_CHAR(dbms_utility.SCN_TO_TIMESTAMP(<scn_value>),
'YYYY-MM-DD HH24:MI:SS') AS timestamp;

SELECT dbms_utility.SCN_TO_NUMBER(TO_CHAR(SYSDATE,
'YYYYMMDDHH24MISS')) AS scn;
```

# 15. Disable/Enable All Triggers of Schema:

### Script:

```
-- Disable
BEGIN

FOR t IN (SELECT * FROM user_triggers) LOOP

EXECUTE DBMS_METADATA.DISABLE_TRIGGER(t.owner,

t.trigger_name);

END LOOP;

END;

-- Enable
BEGIN

FOR t IN (SELECT * FROM user_triggers) LOOP

EXECUTE DBMS_METADATA.ENABLE_TRIGGER(t.owner,

t.trigger_name);
```

```
END LOOP;
END;
/
```

### 16. Get Row Count of All Tables in a Schema:

### Script 1:

```
select table_name,
to_number(extractvalue(dbms_xmlgen.getXMLtype('select /*+
PARALLEL(8) */ count(*) cnt from
"&&SCHEMA_NAME".'||table_name),'/ROWSET/ROW/CNT'))
rows_in_table from dba_TABLES
where owner='&&SCHEMA_NAME';
```

#### Script 2:

```
SELECT table_name, COUNT(*) AS row_count
FROM user_tables
GROUP BY table_name;
```

#### 17. Monitor Index Usage:

#### Script 1:

```
--Index monitoring is required, to find whether indexes are really in use or not. Unused can be dropped to avoid overhead.
--First enable monitoring usage for the indexes.
alter index siebel.S_ASSET_TEST monitoring usage;
--Below query to find the index usage:
select * from v$object_usage;
```

### 18. Spool SQL Query Output to HTML:

## Script 1:

```
--We can spool output of an sql query to html format:

set pages 5000

SET MARKUP HTML ON SPOOL ON PREFORMAT OFF ENTMAP ON -

HEAD "<TITLE>EMPLOYEE REPORT</TITLE> -

<STYLE type='text/css'> -

<!-- BODY {background: #FFFFC6} --> -

ENTYLE>" -

BODY "TEXT='#FF00Ff'" -

TABLE "WIDTH='90%' BORDER='5'"

spool report.html

Select * from scott.emp;

spool off
exit
```

### Script 2:

```
SET LINESIZE 300
SET PAGESIZE 0
SPOOL your_file.html
START HTML ... (HTML formatting commands) ...
SELECT * FROM your_table;
... (More HTML formatting commands) ...
SPOOL OFF;
```

### 19. Get Installed SQL Patches in DB:

### Script 1:

```
--- From 12c onward set lines 2000 select patch_id, status, description from dba_registry_sqlpatch;
```

```
-- Oracle:
SELECT * FROM dba_registry WHERE KEY LIKE '%Patch%' OR KEY LIKE '%Bundle%';
```

```
-- SQL Server:

SELECT * FROM sys.sql_modules m

INNER JOIN sys.extended_properties ep ON m.object_id = ep.major_id

WHERE ep.name = N'MS_SQLServer_PatchLevel';
```

**Optimization:** Filter results based on keywords like "Patch" or "Bundle" in Oracle to improve efficiency.

### 20. Cleanup Orphaned Datapump Jobs:

## Script 1:

```
-- Find the orphaned Data Pump jobs:

SELECT owner_name, job_name, rtrim(operation) "OPERATION",
rtrim(job_mode) "JOB_MODE", state, attached_sessions

FROM dba_datapump_jobs

WHERE job_name NOT LIKE 'BIN$%' and state='NOT RUNNING'

ORDER BY 1,2;
-- Drop the tables

SELECT 'drop table ' || owner_name || '.' || job_name || ';'

FROM dba_datapump_jobs WHERE state='NOT RUNNING' and job_name

NOT LIKE 'BIN$%'
```

```
DECLARE

CURSOR c_orphan_jobs IS
    SELECT job_name
    FROM dba_datapump_jobs
    WHERE status NOT IN ('SUCCEEDED', 'FAILED', 'STOPPED');

BEGIN
    FOR rec IN c_orphan_jobs LOOP
        DBMS_SCHEDULER.DROP_JOB(job_name => rec.job_name);
    END LOOP;

END;
/-- SQL Server:
-- Use Management Studio or PowerShell cmdlets for cleanup.
```

### 21. Installed RDBMS Components:

#### Script 1:

```
col comp_id for a10
col comp_name for a56
col version for a12
col status for a10
set pagesize 200
set lines 200
set long 999
select comp_id,comp_name,version,status from dba_registry;
```

### Script 2:

```
-- Oracle:

SELECT * FROM dba_registry WHERE KEY LIKE '%Component%';

-- SQL Server:

SELECT SERVERPROPERTY('ProductVersion'),

SERVERPROPERTY('ProductVersionFull')
```

**Optimization:** Filter results based on keywords like "Component" in Oracle to improve efficiency.

### 22. Characterset Info of Database:

### Script 1:

```
set pagesize 200
set lines 200
select parameter, value from v$nls_parameters where parameter
like 'NLS_%CHAR%';
```

```
-- Oracle:

SELECT * FROM nls_database_parameters;

-- SQL Server:

SELECT SERVERPROPERTY('Collation_Name')
```

### 23. View/Modify AWR Retention:

#### Script 1:

```
-- View current AWR retention period select retention from dba_hist_wr_control;
-- Modify retention period to 7 days and interval to 30 min select dbms_workload_repository.modify_snapshot_settings (interval => 30, retention => 10080);
NOTE - 7 DAYS = 7*24*3600= 10080 minutes
```

#### Script 2:

```
-- Oracle:

SELECT * FROM dba_retention_defs WHERE retention_name = 'AWR';

-- SQL Server:

-- Use Management Studio or PowerShell cmdlets for configuration.
```

# 24. Find Optimal Undo Retention Size:

```
SELECT d.undo_size / (1024 * 1024) "ACTUAL UNDO SIZE [MByte]",

SUBSTR(e.value, 1, 25) "UNDO RETENTION [Sec]",

(TO_NUMBER(e.value) * TO_NUMBER(f.value) * g.undo_block_per_sec)

/

(1024 * 1024) "NEEDED UNDO SIZE [MByte]"

FROM (SELECT SUM(a.bytes) undo_size

FROM gv$datafile a, gv$tablespace b, dba_tablespaces c

WHERE c.contents = 'UNDO'

AND c.status = 'ONLINE'

AND b.name = c.tablespace_name

AND a.ts# = b.ts#) d,

gv$parameter e,

gv$parameter f,

(SELECT MAX(undoblks / ((end_time - begin_time) * 3600 * 24))

undo_block_per_sec

FROM v$undostat) g
```

```
WHERE e.name = 'undo_retention'
AND f.name = 'db_block_size';
```

```
-- Oracle:
SELECT DBMS_UNDO.ESTIMATE_UNDO_RETENTION_SIZE(<retention_days>)
AS est_size_mb
FROM DUAL;
-- SQL Server:
-- Use built-in tools or recommendations from Microsoft.
```

## 25. Purge Old AWR Snapshots:

## Script 1:

```
-- Find the AWR snapshot details.

select snap_id,begin_interval_time,end_interval_time from

sys.wrm$_snapshot order by snap_id

-- Purge snapshot between snapid 612 to 700

execute dbms_workload_repository.drop_snapshot_range(low_snap_id
=>612 , high_snap_id =>700);

-- Verify again

select snap_id,begin_interval_time,end_interval_time from

sys.wrm$_snapshot order by snap_id
```

# Script 2:

```
-- Oracle:
DBMS_SNAPSHOT.DROP(<snapshot_id>);
-- SQL Server:
-- Use Management Studio or PowerShell cmdlets for cleanup.
```

## 26. Modify Moving Window Baseline Size:

```
-- Check the current moving window baseline size:
select BASELINE_TYPE, MOVING_WINDOW_SIZE from dba_hist_baseline;
-- Modify window_size to (7 days):
```

```
execute
dbms_workload_repository.modify_baseline_window_size(window_size)
=> 7);
```

```
-- Oracle:
ALTER SYSTEM SET "_optimizer_mvwb_size" = <new_size>;
-- SQL Server:
-- Use Management Studio or PowerShell cmdlets for configuration.
```

## 27. Open Database Link Information:

### Script 1:

```
set pagesize 200
set lines 200
col db_link for a19
set long 999
SELECT db_link,
owner_id,
logged_on,
heterogeneous,
open_cursors,
in_transaction,
update_sent
FROM gv$dblink
ORDER BY db_link;
```

### Script 2:

```
-- Oracle:
SELECT * FROM dba_db_links;

-- SQL Server:
SELECT * FROM sys.linked_servers;
```

## 28. Utilization of Current Redo Log (in %):

```
SELECT le.leseq "Current log sequence No",

100*cp.cpodr_bno/le.lesiz "Percent Full",

cp.cpodr_bno "Current Block No",

le.lesiz "Size of Log in Blocks"

FROM x$kcccp cp, x$kccle le

WHERE le.leseq =CP.cpodr_seq

AND bitand(le.leflg,24) = 8

/
```

```
-- Oracle:

SELECT (NVL(SUM(CASE WHEN archived = 'NO' THEN bytes ELSE 0

END), 0) / SUM(bytes)) * 100 AS pct_used

FROM v$logfile;

-- SQL Server:
-- Use DMV (Dynamic Management Views) for monitoring.
```

## 29. Table Not Having Index on FK Column:

```
select * from (
select c.table name, co.column name, co.position column position
from user constraints c, user cons columns co
where c.constraint name = co.constraint name
and c.constraint type = 'R'
minus
select ui.table name, uic.column name, uic.column position
from user indexes ui, user ind columns uic
where ui.index name = uic.index name
order by table name, column position;
select
a.constraint name cons name
,a.table name tab name
,b.column name cons column
,nvl(c.column name, '***No Index***') ind column
from user constraints a
join
```

```
user_cons_columns b on a.constraint_name = b.constraint_name
left outer join
user_ind_columns c on b.column_name = c.column_name
and b.table_name = c.table_name
where constraint_type = 'R'
order by 2,1;
```

```
-- Oracle:

SELECT tc.table_name, c.column_name

FROM user_tables tc

JOIN user constraints uc ON tc.table name = uc.table name
```

#### 30. Get CPU and Memory Info of DB Server:

#### Script 1:

```
set pagesize 200
set lines 200
col name for a21
col stat_name for a25
col value for a13
col comments for a56
select STAT_NAME, to_char(VALUE) as VALUE , COMMENTS from v$osstat where
stat_name IN ('NUM_CPUS', 'NUM_CPU_CORES', 'NUM_CPU_SOCKETS')
union
select STAT_NAME, VALUE/1024/1024/1024 || 'GB', COMMENTS from
v$osstat where stat_name IN ('PHYSICAL_MEMORY_BYTES');
```

#### Script 2:

```
SELECT * FROM v$resource_pool_wait_stat; -- CPU utilization
SELECT * FROM v$resource_pool_memory_usage; -- Memory usage

SELECT * FROM sys.dm_os_cpu_busy -- CPU utilization
SELECT * FROM sys.dm_os_memory_clerks -- Memory usage
```

#### **Optimizations:**

• Utilize built-in views or functions designed for performance monitoring.

• Consider using management tools provided by the database vendor for a more comprehensive overview.

#### 31. Get Database Incarnation Info:

## Script 1:

```
set heading off
set feedback off
select 'Incarnation Destination Configuration' from dual;
select '***********************************
from dual;
set heading on
set feedback on
select INCARNATION# INC#, RESETLOGS_CHANGE# RS_CHANGE#,
RESETLOGS_TIME,
PRIOR_RESETLOGS_CHANGE# PRIOR_RS_CHANGE#, STATUS,
FLASHBACK_DATABASE_ALLOWED FB_OK from v$database_incarnation;
```

### Script 2:

```
-- Oracle:

SELECT * FROM v$system_event WHERE name = 'instance incarnation';

-- SQL Server:

SELECT SERVERPROPERTY('ServerVersionInfo') -- Information includes incarnation ID
```

#### 32. View Timezone Info in DB:

## Script 1:

```
SELECT version FROM v$timezone_file;

SELECT PROPERTY_NAME, SUBSTR(property_value, 1, 30) value

FROM DATABASE_PROPERTIES

WHERE PROPERTY_NAME LIKE 'DST_%'

ORDER BY PROPERTY_NAME;
```

```
-- Oracle:

SELECT * FROM nls_database_parameters WHERE parameter =

'TIME_ZONE';

-- SQL Server:

SELECT @@SERVERPROPERTY('timezoneoffset') -- Offset from UTC in minutes
```

#### **Additional Considerations:**

- Security: Ensure you have the necessary privileges to execute the provided queries.
- **Database version:** The specific syntax and available views/functions might differ slightly between database versions.
- Alternative methods: Explore management tools or vendor-specific utilities for comprehensive performance and configuration information.

By following these guidelines and considering optimization techniques, you can efficiently retrieve the desired database information while minimizing resource consumption.