

This ASIQ 12.5 Quick Reference Guide was written by Raymond Mardle (rpmardle@yahoo.co.uk). Please contact the author for any comments or suggestions. This document can be downloaded from www.sypron.nl/asiq_qref.html.

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Adaptive Server IQ 12.5 Commands (* = new, + = changed)

Two styles of commenting; the same as in ASE :-

```
/*
a comment between delimiters on one or more lines
*/
-- a comment until the end of this line
```

```
ALLOCATE DESCRIPTOR descriptor-name
[ WITH MAX { integer | host-variable } ]
```

```
ALTER EVENT event-name
[ DELETE TYPE | TYPE event-type ]
{ WHERE { trigger-condition | NULL }
  | { ADD | [ MODIFY ] | DELETE } SCHEDULE schedule-spec
}
[ ENABLE | DISABLE ]
[ [ MODIFY ] HANDLER compound-statement | DELETE HANDLER ]
```

```
ALTER PROCEDURE [ owner. ] procedure-name procedure-definition
```

```
ALTER SERVER server-name
[ CLASS 'server-class' ]
[ USING 'connection-info' ]
[ CAPABILITY 'cap-name' { ON | OFF } ]
```

```
ALTER TABLE [ owner. ] table-name
{ ADD column-definition [ column-constraint ] ...
  | ADD table-constraint
  | MODIFY column-name [ NOT ] NULL
  | MODIFY column-name CHECK NULL
  | MODIFY column-name CHECK ( condition )
  | { DELETE | DROP } column-name
  | { DELETE | DROP } CHECK
  | { DELETE | DROP } UNIQUE ( column-name [ , ... ] )
  | { DELETE | DROP } PRIMARY KEY
  | { DELETE | DROP } FOREIGN KEY role-name
  | RENAME new-table-name
  | RENAME column-name TO new-column-name
}
```

```
+ column-constraint = [ IQ UNIQUE ( integer ) ] [ { UNIQUE | PRIMARY KEY |
REFERENCES table-name [ ( column-name ) ] [ actions ] |
CHECK ( condition ) UNENFORCED } ]
```

integer : Should always specify IQ UNIQUE even if more than 65,536 distinct values (alternatively, set option MINIMIZE_STORAGE to ON)

```
+ table-constraint = { UNIQUE ( column-name [ , column-name ] ... ) |
PRIMARY KEY ( column-name [ , column-name ] ... ) |
CHECK ( condition ) UNENFORCED | foreign-key-constraint }

+ foreign-key-constraint = FOREIGN KEY [ role-name ] [ ( column-name [ , ... ] ) ]
REFERENCES table-name [ ( column-name [ , ... ] ) ] [ actions ]

+ actions = [ ON { UPDATE | DELETE } action ]

* action = { RESTRICT }
```

```
ALTER VIEW
[ owner. ] view-name [ ( column-name [ , ... ] ) ]
AS select-without-order-by
[ WITH CHECK OPTION ]
```

```
BACKUP DATABASE
[ CRC { ON | OFF } ]
[ ATTENDED { ON | OFF } ]
[ BLOCK FACTOR integer ]
[ { FULL | INCREMENTAL | INCREMENTAL SINCE FULL } ]
TO archive_device [ SIZE integer ] [ STACKER integer ]
[ [ TO archive_device [ SIZE integer ] [ STACKER integer ] ] ... ]
[ WITH COMMENT string ]
```

```
[ statement-label : ]
BEGIN [ [ NOT ] ATOMIC ]
[ local-declaration ; ... ]
statement-list
[ EXCEPTION [ exception-case ... ] ]
END [ statement-label ]
```

```
BEGIN PARALLEL IQ
statement-list
END PARALLEL IQ
```

```
BEGIN TRAN[SACTION] [ transaction-name ]
```

```
[ variable = ] CALL procedure-name ( [ expression ] [ , ... ] )
```

```
[ variable = ] CALL procedure-name ( [ parameter-name = expression ] [ , ... ] )
```

```
CASE value-expression
WHEN [ constant | NULL ] THEN statement-list
[ [ WHEN [ constant | NULL ] THEN statement-list ] ... ]
[ ELSE statement-list ]
END CASE
```

```
CASE
WHEN value-expression = constant THEN statement-list
[ [ WHEN value-expression = constant THEN statement-list ] ... ]
[ ELSE statement-list ]
END CASE
```

```
CHECKPOINT
```

```
CLEAR
```

```
CLOSE cursor-name
```

```
COMMENT ON
{ COLUMN [ owner. ] table-name. column-name
  | FOREIGN KEY [ owner. ] table-name. role-name
  | INDEX [ owner. ] index-name
  | JAVA CLASS java-class-name
  | JAVA JAR java-jar-name
  | LOGIN integrated_login_id
  | PROCEDURE [ owner. ] procedure-name
  | TABLE [ owner. ] table-name
  | USER userid
  | VIEW [ owner. ] view-name
} IS comment
```

```

COMMIT [ WORK ]

COMMIT TRAN[SACTION ] [ transaction-name ]

CONFIGURE

CONNECT
  [ TO engine-name ]
  [ DATABASE database-name ]
  [ AS connection-name ]
  [ USER ] userid [ IDENTIFIED BY password ]

CONNECT USING connect-string

CREATE DATABASE db-name
  [ [ TRANSACTION ] { LOG OFF | LOG ON [ log-file-name ]
    [ MIRROR mirror-file-name ] } ]
  [ CASE { RESPECT | IGNORE } ]
  [ PAGE SIZE page-size ]
  [ COLLATION 'collation-label' ]
  [ BLANK PADDING { ON | OFF } ]
  [ JAVA { ON | OFF } ]
  [ JCONNECT { ON | OFF } ]
  [ IQ PATH iq-file-name ]
  [ IQ SIZE iq-file-size ]
  [ IQ PAGE SIZE iq-page-size ]
  [ BLOCK SIZE block-size ]
  [ MESSAGE PATH message-file-name ]
  [ TEMPORARY PATH temp-file-name ]
  [ TEMPORARY SIZE temp-db-size ]

page-size = { 1024 | 2048 | 4096 | 8192 | 16384 | 32768 }

iq-page-size = { 65536 | 131072 | 262144 | 524288 }

block-size = { 4096 | 8192 | 16384 | 32768 }

CREATE DBSPACE dbspace-name AS filename
  [ { IQ STORE | IQ TEMPORARY STORE | CATALOG STORE } ] [ [ SIZE ] file-size ]

+CREATE { DOMAIN | DATATYPE } domain-name data-type [ [ NOT ] NULL ]

CREATE EVENT event-name
  [ TYPE event-type ]
  [ WHERE trigger-condition [ AND trigger-condition ], ... ]
  [ SCHEDULE schedule-spec, ... ]
  [ ENABLE | DISABLE ]
  [ AT { CONSOLIDATED | REMOTE | ALL } ]
  [ HANDLER
    BEGIN
      schedule-statements
    END
  ]

CREATE EXISTING TABLE [owner.]table_name
  [(column-definition, ...)] AT 'location-string'

CREATE EXTERNLOGIN login-name TO remote-server
  REMOTE LOGIN remote-user
  [ IDENTIFIED BY remote-password ]

CREATE FUNCTION [ owner.]function-name ( [ parameter, ... ] )
  RETURNS data-type
  { EXTERNAL NAME library-call
  | EXTERNAL NAME java-call LANGUAGE JAVA
  | [ ON EXCEPTION RESUME ]
  compound-statement
  }

```

```

CREATE [ UNIQUE ] [ index-type ] INDEX index-name
  ON [ owner.]table-name
  ( column-name [ , ... ] )
  [ { IN | ON } dbspace-name ]
  [ NOTIFY integer ]
  [ DELIMITED BY 'separators-string' ]
  [ LIMIT maxwordsize-integer ]

+ index-type = { CMP | HG | HNG | LF | WD | *DATE | *TIME | *DTTM }

CREATE JOIN INDEX join-index-name FOR join-clause

CREATE MESSAGE message-number AS 'message-text'

CREATE PROCEDURE [ owner.]procedure-name ( [ parameter , ... ] )
  { EXTERNAL NAME library-call | [ DYNAMIC RESULT SETS integer-expression ]
  EXTERNAL NAME java-call LANGUAGE JAVA | [ RESULT ( result-column , ... ) ]
  [ ON EXCEPTION RESUME ]
  compound-statement
  | AT location-string
  }

CREATE PROCEDURE [owner.]procedure_name
  [[ ( ) @parameter_name data-type [= default] ] [ OUTPUT ] [ , .. ] ( ) ]
  [ WITH RECOMPILE ]
  AS
  statement-list

CREATE SCHEMA AUTHORIZATION userid
  [ [ { create-table-statement | create-view-statement | grant-statement } ] ... ]

CREATE SERVER server-name CLASS 'server-class' USING 'connection-info'
  [ READ ONLY ]

+CREATE [ GLOBAL TEMPORARY ] TABLE [ owner.]table-name
  ( column-definition [ column-constraint ]
  [, column-definition [ column-constraint ] ... ]
  [, table-constraint ] ... )
  [ { IN | ON } dbspace-name ]
  [ ON COMMIT { DELETE | PRESERVE } ROWS ]
  [ AT location-string ]

See ALTER TABLE for column-constraint and table-constraint

CREATE VARIABLE identifier data-type

CREATE VIEW [ owner.]view-name [ ( column-name [ , ... ] ) ]
  AS select-without-order-by
  [ WITH CHECK OPTION ]

DEALLOCATE DESCRIPTOR descriptor-name:string

EXEC SQL BEGIN DECLARE SECTION;
  C declarations
EXEC SQL END DECLARE SECTION;

DECLARE variable_name data-type

DECLARE cursor-name
  [ UNIQUE ] [ { SCROLL | NO SCROLL | DYNAMIC SCROLL | INSENSITIVE } ]
  { CURSOR FOR select-statement | CURSOR FOR statement-name }
  [ { FOR UPDATE | FOR READ ONLY } ] | USING variable-name

DECLARE cursor-name CURSOR
  FOR select-statement
  [ FOR { READ ONLY | UPDATE } ]

DECLARE LOCAL TEMPORARY TABLE table-name
  ( column-definition [ column-constraint ] ...
  [, column-definition [ column-constraint ] ... ]
  [, table-constraint ] ... )
  [ ON COMMIT { DELETE | PRESERVE } ROWS ]

```

```

DELETE [ FROM ] [ owner.]table-name
  [ FROM table-list ]
  [ WHERE search-condition ]

DESCRIBE
  [ USER TYPES ]
  [ { ALL | BIND VARIABLES FOR | INPUT | OUTPUT | SELECT LIST FOR } ]
  [ { LONG NAMES [ long-name-spec ] | WITH VARIABLE RESULT } ]
  [ FOR ] { statement-name | CURSOR cursor-name } INTO sql-da-name

DISCONNECT [ { connection-name | CURRENT | ALL } ]

DROP
  { DBSPACE dbspace-name
  | { DATATYPE | DOMAIN } datatype-name
  | INDEX [ owner.]table-name.index-name
  | JOIN INDEX [ owner.]join-index-name
  | TABLE [ owner.]table-name
  | VIEW [ owner.]view-name
  | PROCEDURE [ owner.]procedure-name
  | FUNCTION [ owner.]function-name
  }

DROP CONNECTION connection-id

DROP DATABASE db-filename

DROP EVENT event-name

DROP EXTERNLOGIN login-name TO remote-server

DROP SERVER server-name

DROP STATEMENT [ owner.]statement-name

DROP VARIABLE identifier

EXECUTE ( string-expression )

EXECUTE statement-name
  [ { USING DESCRIPTOR sql-da-name | USING host-variable-list } ]
  [ { INTO DESCRIPTOR into-sql-da-name | INTO into-host-variable-list } ]
  [ ARRAY :nnn ] }

+EXECUTE IMMEDIATE { statement | string-expression }

EXECUTE [ @return_status = ] [ owner.]procedure_name
  [ [ @parameter-name = ] expression
  | [ @parameter-name = ] @variable [ output ] } ,...

{ EXIT | QUIT | BYE }

FETCH
  { NEXT | PRIOR | FIRST | LAST | ABSOLUTE row-count | RELATIVE row-count }
  cursor-name
  [ { INTO host-variable-list } | USING DESCRIPTOR sql-da-name
  | INTO variable-list ]
  [ PURGE ] [ BLOCK n ] [ ARRAY fetch-count ]
  INTO variable-list
  IQ CACHE row-count

[ statement-label: ]
  FOR for-loop-name AS cursor-name
  CURSOR FOR statement
  [ { FOR UPDATE | FOR READ ONLY } ]
  DO statement-list
  END FOR [ statement-label ]

FORWARD TO server-name { sql-statement }

FORWARD TO [ server-name ]

GET DESCRIPTOR descriptor-name
  { hostvar = COUNT } | VALUE n assignment [ , ... ] }

```

```

label:
  GOTO label

GRANT CONNECT TO userid [ , ... ] IDENTIFIED BY password [ , ... ]

GRANT
  { DBA
  | GROUP
  | MEMBERSHIP IN GROUP userid [ , ... ]
  | RESOURCE
  | ALL
  }
  TO userid [ , ... ]

GRANT
  { ALL [ PRIVILEGES ]
  | ALTER
  | DELETE
  | INSERT
  | REFERENCES [ ( column-name [ , ... ] ) ]
  | SELECT [ ( column-name [ , ... ] ) ]
  | UPDATE [ ( column-name , ... ) ]
  }
  ON [ owner.]table-name TO userid [ , ... ] [ WITH GRANT OPTION ]

GRANT EXECUTE ON [ owner.]procedure-name TO userid [ , ... ]

GRANT INTEGRATED LOGIN TO user_profile_name [ , ... ] AS USER userid

HELP [ topic ]

IF search-condition THEN statement-list
  [ ELSE IF search-condition THEN statement-list ]...
  [ ELSE statement-list ]
END IF

IF expression
  statement
  [ ELSE [ IF expression ] statement ]...

IF expression
BEGIN
  statement-list
END
[ ELSE
BEGIN
  statement-list
END ]

INCLUDE filename

INSERT [ INTO ] [ owner.]table-name [ ( column-name [ , ... ] ) ]
  VALUES ( expression ... )

INSERT [ INTO ] [ owner.]table-name [ ( column-name [ , ... ] ) ]
  insert-load-options
  select-statement

INSERT [ INTO ] [ owner.]table-name [ ( column-name [ , ... ] ) ]
  LOCATION 'servername.dbname'
  insert-load-options
  { select-statement }

INSTALL JAVA [ install-mode ] [ JAR jar-name ] FROM source

IQ UTILITIES { MAIN | PRIVATE }
  [ INTO ] table-name
  { START MONITOR [ 'monitor-options' ] | STOP MONITOR }

LEAVE statement-label

```

```

+LOAD [ INTO ] TABLE [ owner.]table-name
  ( load-specification [, ...] )
  FROM 'filename-string' [, ...]
  QUOTES OFF
  ESCAPES OFF
  [ FORMAT { 'ascii' | 'binary' } ]
  [ DELIMITED BY 'string' ]
  [ STRIP { ON | OFF } ]
  [ WITH CHECKPOINT { ON | OFF } ]
  [ { BLOCK FACTOR number | BLOCK SIZE number } ]
  [ BYTE ORDER { NATIVE | HIGH | LOW } ]
  [ LIMIT number-of-rows ]
  [ NOTIFY number-of-rows ]
  [ ON FILE ERROR { ROLLBACK | FINISH | CONTINUE } ]
  [ PREVIEW { ON | OFF } ]
  [ ROW DELIMITED BY 'delimiter-string' ]
  [ SKIP number-of-rows ]
  [ START ROW ID number ]
  [ UNLOAD FORMAT ]
  [ IGNORE CONSTRAINT constrainttype [, ...] ]
  [ MESSAGE LOG 'string' ROW LOG 'string' [ ONLY LOG logwhat [, ...] ]
  [ LOG DELIMITED BY 'string' ]

[ statement-label: ]
  [ WHILE search-condition ] LOOP
    statement-list
  END LOOP [ statement-label ]

MESSAGE expression, ...
[ TYPE { INFO | ACTION | WARNING | STATUS } ]
[ TO { CLIENT | CONSOLE | LOG } ]

OPEN cursor-name
  [ USING [ DESCRIPTOR { sqllda-name | host-variable [, ...] } ] ]
  [ WITH HOLD ]

PARAMETERS parameter1, parameter2, ...

PREPARE statement-name FROM statement
  [ DESCRIBE describe-type INTO [ { SQL } DESCRIPTOR ] descriptor ]
  [ WITH EXECUTE ]

PRINT format-string [, arg-list]

RAISERROR error-number [ format-string ] [, arg-list]

READ filename [ parameters ]

RELEASE SAVEPOINT [ savepoint-name ]

REMOVE JAVA classes_to_remove

RESIGNAL [ exception-name ]

RESTORE DATABASE 'db_file' FROM 'archive_device' [ FROM 'archive_device' ... ]
  [ RENAME dbspace_name TO 'new_dbspace_path' ]...
  [ CATALOG ONLY ]

RESUME cursor-name

RESUME [ ALL ]

RETURN ( ( expression ) )

REVOKE
  { CONNECT | DBA | INTEGRATED LOGIN | GROUP
    | MEMBERSHIP IN GROUP userid [, ...] | RESOURCE
  }
  FROM userid [, ...]

```

```

REVOKE
  { ALL [PRIVILEGES]
  | ALTER
  | DELETE
  | INSERT
  | REFERENCE
  | SELECT [ ( column-name [, ...] ) ]
  | UPDATE [ ( column-name [, ...] ) ]
  }
  ON [ owner.]table-name FROM userid [, ...]

REVOKE EXECUTE ON [ owner.]procedure-name FROM userid [, ...]

ROLLBACK [ WORK ]

ROLLBACK TO SAVEPOINT [ savepoint-name ]

SAVEPOINT [ savepoint-name ]

+SELECT [ ALL | DISTINCT ] [ FIRST | TOP number-of-rows ] select-list
  [ INTO { host-variable-list | variable-list | temp-table } ]
  [ FROM table-list ]
  [ WHERE search-condition ]
  [ GROUP BY [ ROLLUP | CUBE ] expression [, ...] ]
  [ HAVING search-condition ]
  [ ORDER BY { expression | integer } { ASC | DESC } [, ...] ]

SET

SET identifier = expression

SET option-name option-value

SET CONNECTION [ connection-name ]

SET DESCRIPTOR descriptor-name
  { COUNT = { integer | hostvar } | VALUE n assignment [, ...] }

SET [ EXISTING ] [ TEMPORARY ] OPTION
  [ userid.] PUBLIC.option-name = [ option-value ]

SET PERMANENT

SET SQLCA sqlca

SIGNAL exception-name

START DATABASE database-file
  [ AS database-name ]
  [ ON engine-name ]
  [ AUTOSTOP { YES | NO } ]

START ENGINE AS engine-name [ STARTLINE command-string]

START JAVA

STOP DATABASE database-name
  [ ON engine-name ]
  [ UNCONDITIONALLY ]

STOP ENGINE engine-name [ UNCONDITIONALLY ]

STOP JAVA

SYNCHRONIZE JOIN INDEX [ join-index-name [, join-index-name [, ...] ] ]

TRIGGER EVENT event-name ( ( parm = value, ... ) )

TRUNCATE TABLE [ owner.]table-name

select-without-order-by
  UNION [ ALL ] select-without-order-by
  [ UNION [ ALL ] select-without-order-by ]...
  [ ORDER BY integer [ ASC | DESC ] [, ...] ]

```

```
UPDATE table
SET [column-name = expression [, ... ]]
[ { FROM table-expression
  [ WHERE search-condition ]
  | FROM { table-expression table-expression : table-spec
          | table-expression join-type table-spec [ ON condition ]
          | table-expression [, ... ]
        }
    ]
[ ORDER BY expression [ ASC | DESC ] [, ... ] ]
```

```
WHENEVER
{ SQLERROR | SQLWARNING | NOTFOUND }
{ GOTO label | STOP | CONTINUE | C code; }
```

```
WHILE expression
statement
```

ASIQ 12.5 Datatypes (* = new)

Datatypes	Synonyms	Range
-----------	----------	-------

Exact Numeric datatypes (Can't have WD, DATE, TIME or DTTM indexes)		
bigint		-9223372036854775808 to 9223372036854775807
unsigned bigint		0 to 18446744073709551615
integer	int	-2147483648 to 2147483647
unsigned integer	unsigned int	0 to 4294967295
smallint		-32768 to 32767
tinyint		0 to 255
decimal [(p, s)]		-10 ¹²⁶ to 10 ¹²⁶ - 1
numeric [(p, s)]		-10 ¹²⁶ to 10 ¹²⁶ - 1

Approximate numeric datatypes (Can't have CMP, HNG, WD, DATE, TIME or DTTM indexes)		
double		±2.2250738585072e ⁻³⁰⁸ to ±1.79769313486231e ⁺³⁰⁸
float		As for real
float (precision)		As for real or double, depending upon precision
real		±1.175494351e ⁻³⁸ to ±3.402823466e ⁺³⁸

Money datatypes (Can't have WD, DATE, TIME or DTTM indexes)		
smallmoney	numeric (10, 4)	-999,999.9999 to 999,999.9999
money	numeric (19, 4)	-999,999,999,999.9999 to 999,999,999,999.9999

Date / time datatypes (Can't have WD index. DATE index only on date. TIME index only on time. DTTM index only on datetime and timestamp)		
date		0001 to 9999
datetime		As for timestamp
smalldatetime		As for timestamp
time		00:00:00.000000 to 23:59:59.999999
timestamp		0001-01-01 00:00:00.000000 to 9999-12-31 23:59:59.999999

Character datatypes (Can't have DATE, TIME or DTTM indexes)		
character	char	255 bytes or fewer
character varying	varchar	32,767 bytes or fewer (only default, WD & CMP indexes possible if more than 255 bytes)

Binary datatypes (Can't have HNG, WD, DATE, TIME or DTTM indexes)		
binary		255 bytes or fewer (best to specify an even number)
varbinary		32,767 bytes or fewer (best to specify an even number) (only default & CMP indexes possible if more than 255 bytes)
*long binary		A longer varbinary : 32,768 to 65,535 bytes (best to specify an even number) but only for page sizes of 128KB or larger (only default & CMP indexes possible if more than 255 bytes)

Bit datatype (Can only have default index)		
bit		0, 1 or NULL

Java to SQL data type conversion

Java Type	SQL Type
String	CHAR
String	VARCHAR
String	TEXT
java.math.BigDecimal	NUMERIC
Java.math.BigDecimal	MONEY
Boolean	BIT
Byte	TINYINT
Short	SMALLINT
Int	INTEGER
Long	BIGINT
Float	REAL
Double	DOUBLE
java.sql.Date	DATE
java.sql.Time	TIME
java.sql.Timestamp	TIMESTAMP
java.lang.Double	DOUBLE
java.lang.Float	REAL
java.lang.Integer	INTEGER
java.lang.Long	INTEGER

SQL to Java data type conversion

SQL Type	Java Type
CHAR	String
VARCHAR	String
NUMERIC	java.math.BigDecimal
DECIMAL	java.math.BigDecimal
MONEY	java.math.BigDecimal
BIT	boolean
TINYINT	byte
SMALLINT	short
INTEGER	int
BIGINT	long
REAL	float
FLOAT	double
DOUBLE	double
DATE	java.sql.Date
TIME	java.sql.Time
TIMESTAMP	java.sql.Timestamp

ASIQ 12.5 Functions (* = new)

ABS (numeric-expr)
 ACOS (numeric-expr)
 ARGN (integer-expr, expression [, ...])
 ASCII (string-expr)
 ASIN (numeric-expr)
 ATAN (numeric-expr)
 ATAN2 (numeric-expr1, numeric-expr2)
 AVG ({ DISTINCT column-name | numeric-expr })
 BYTE_LENGTH (string-expr)
 CAST (expression AS datatype)
 CEILING (numeric-expr)
 CHAR (integer-expr)
 CHAR_LENGTH (string-expr)
 CHARINDEX (string-expr1, string-expr2)
 COALESCE (expression, expression [, expression ...])
 COL_LENGTH (table-name, column-name)
 COL_NAME (table-id, column-id [, database-id])
 CONNECTION_PROPERTY ({ property-id | property-name } ... [, connection-id])
 CONVERT (datatype, expression [, format-style])
 COS (numeric-expr)
 COT (numeric-expr)
 COUNT (*)
 COUNT ({ DISTINCT column-name | expression })
 DATALENGTH (expression)
 DATE (expression)
 DATEADD (date-part, numeric-expression, date-expr)
 DATEDIFF (date-part, date-expr1, date-expr2)
 DATEFORMAT (datetime-expr, string-expr)
 DATENAME (date-part, date-expr)
 DATEPART (date-part, date-expr)
 DATETIME (expression)
 DAY (date-expr)
 DAYNAME (date-expr)
 DAYS (date-expr)
 DAYS (date-expr, date-expr)
 DAYS (date-expr, integer-expr)
 DB_ID ([database-name])
 DB_NAME ([database-id])
 DB_PROPERTY ({ property-id | property-name } ... [, { database-id | database-name }])
 DEGREES (numeric-expr)
 *DENSE_RANK ()
 DIFFERENCE (string-expr1, string-expr2)
 DOW (date-expr)
 EVENT_CONDITION (condition-name)
 EVENT_CONDITION_NAME (integer)
 EVENT_PARAMETER (context-name)
 EXP (numeric-expr)
 FLOOR (numeric-expr)
 GETDATE ()
 HEXTOINT (hexadecimal-string)
 HOUR (datetime-expr)
 HOURS (datetime-expr)
 HOURS (datetime-expr, datetime-expr)
 HOURS (datetime-expr, integer-expr)
 IFNULL (expression1, expression2 [, expression3])
 INDEX_COL (table-name, index-id, key_# [, user-id])
 INSERTSTR (numeric-expr, string-expr1, string-expr2)
 INTTOHEX (integer-expr)
 ISNULL (expression, expression [, expression ...])
 LCASE (string-expr)
 LEFT (string-expr, numeric-expr)
 LENGTH (string-expr)
 LOCATE (string-expr1, string-expr2 [, numeric-expr])
 LOG (numeric-expr)
 LOG10 (numeric-expr)
 LOWER (string-expr)
 LTRIM (string-expr)
 MAX ({ DISTINCT column-name | expression })

MIN ({ DISTINCT column-name | expression })
 MINUTE (datetime-expr)
 MINUTES (datetime-expr)
 MINUTES (datetime-expr, datetime-expr)
 MINUTES (datetime-expr, integer-expr)
 MOD (dividend, divisor)
 MONTH (date-expr)
 MONTHNAME (date-expr)
 MONTHS (date-expr)
 MONTHS (date-expr, date-expr)
 MONTHS (date-expr, integer-expr)
 NEXT_CONNECTION ({ NULL | connection-id })
 NEXT_DATABASE ({ NULL | database-id })
 NOW (*)
 *NTILE (integer)
 NULLIF (expression1, expression2)
 NUMBER (*)
 OBJECT_ID (object-name)
 OBJECT_NAME (object-id [, database-id])
 PATINDEX ('%pattern%', string_expr)
 *PERCENT_RANK ()
 *PERCENTILE_CONT (numeric-expr)
 *PERCENTILE_DISC (numeric-expr)
 PI (*)
 POWER (numeric-expr1, numeric-expr2)
 PROPERTY ({ property-number | property-name })
 PROPERTY_DESCRIPTION ({ property-number | property-name })
 PROPERTY_NAME (property-number)
 PROPERTY_NUMBER (property-name)
 QUARTER (date-expr)
 RADIANS (numeric-expr)
 RAND ([integer-expr])
 *RANK ()
 REMAINDER (numeric-expr, numeric-expr)
 REPEAT (string-expr, numeric-expr)
 REPLACE (original-string, search-string, replace-string)
 REPLICATE (string-expr, integer-expr)
 RIGHT (string-expr, numeric-expr)
 ROUND (numeric-expr, integer-expr)
 ROWID (table-name)
 RTRIM (string-expr)
 SECOND (datetime-expr)
 SECONDS (datetime-expr)
 SECONDS (datetime-expr, datetime-expr)
 SECONDS (datetime-expr, integer-expr)
 SIGN (numeric-expr)
 SIMILAR (string-expr1, string-expr2)
 SIN (numeric-expr)
 *SORTKEY (string_expr [collation-name])
 SOUNDEX (string-expr)
 SPACE (integer-expr)
 SQRT (numeric-expr)
 STDDEV ([DISTINCT | ALL] expression)
 STR (numeric_expr [, length [, decimal]])
 STRING (string1 [, string2, ..., string99])
 STUFF (string-expr1, start, length, string-expr2)
 SUBSTRING (string-expr, integer-expr [, integer-expr])
 SUM ({ DISTINCT column-name | expression })
 SUSER_ID ([user-name])
 SUSER_NAME ([user-id])
 TAN (numeric-expr)
 TODAY (*)
 TRIM (string-expr)
 TRUNCATE (numeric-expr, integer-expr)
 TRUNCNUM (numeric-expression, integer-expression)
 UCASE (string-expr)
 UPPER (string-expr)
 USER_ID ([user-name])
 USER_NAME ([user-id])
 VARIANCE ([DISTINCT | ALL] expression)

WEEKS (date-expr)
 WEEKS (date-expr, date-expr)
 WEEKS (date-expr, integer-expr)
 YEAR (date-expr)
 YEARS (date-expr)
 YEARS (date-expr, date-expr)
 YEARS (date-expr, integer-expr)
 YMD (year-num, month-num, day-num)

For all following procedures, parameters can be enclosed in (and) when 'call' used

ASIQ 12.5 System Procedures (* = new, + = changed)

```
*sp_iqaddlogin loginname, password, [ number_of_connections ]
  [ , password_expiration ]
+sp_iqcheckdb 'mode target[...] [ resources resource-percent ]'
*sp_iqcheckoptions
sp_iqcolumn [ table_name ],[ table_owner ]
sp_iqcolumn [ table_name='tablename' ],[ table_owner='tableowner' ]
sp_iqcommandstats [ verbosity_level | search_string ]
sp_iqconnection [ connhandle ]
*sp_iqconstraint [ table-name, column-name, table-owner ]
*sp_iqcontext [ connhandle ]
sp_iqdbsize
sp_iqdbstatistics
*sp_iqdroplogin userid
sp_iquestdbspaces [ db_size_in_bytes, iq_page_size,
  min_#_of_bytes, max_#_of_bytes ]
sp_iquestjoin table1_name, table1_row_#, table2_name, table2_row_#,
  relation, iq_page_size
sp_iquestspace table_name, #_of_rows, iq_page_size
sp_iqindex [ table_name ],[column_name ],[table_owner ]
sp_iqindex [ table_name='tablename' ],
  [ column_name='columnname' ], [ table_owner='tableowner' ]
*sp_iqindex_alt [ table_name ],[column_name ],[table_owner ]
*sp_iqindex_alt [ table_name='tablename' ],
  [ column_name='columnname' ], [ table_owner='tableowner' ]
+sp_iqindexsize [ [ owner.]table.] index_name
sp_iqjoinindexsize join_index_name
*sp_iqlistexpiredpasswords
*sp_iqlistlockedusers
*sp_iqlistpasswordexpirations
*sp_iqlocklogin loginname, [ lock | unlock ]
*sp_iqlocks [ connection, ] [ [ owner.]table_name ] max_locks, [ sort_order ]
*sp_iqmodifyadmin { [ enable | disable | user_connections |
  db_connections | password_expiration | password_warning ] }, [ value ]
*sp_iqmodifylogin { loginname | all overrides }, option, value
*sp_iqpassword caller_password, new_password[, loginname ]
*sp_iq_process_login
*sp_iqspaceinfo
*sp_iqspaceinfo_table 'table_name_patten' → User created procedure
sp_iqspaceused { out mainKB unsigned bigint, out mainKBUsed unsigned bigint,
  out tempKB unsigned bigint, out tempKBUsed unsigned bigint }
sp_iqstatus
sp_iqtable [ table_name ], [ table_owner ], [ table_type ]
sp_iqtable [ table_name='tablename' ],
  [ table_owner='tableowner' ], [ table_type='tabletype' ]
sp_iqtablesizes [ table_owner.]table_name
sp_iqtransaction
sp_iqview [ view_name ],[view_owner],[view_type ]
sp_iqview [view_name='viewname' ],
  [ view_owner='viewowner' ], [ view_type='viewtype' ]
```

ASIQ 12.5 Catalogue Procedures (* = new)

```
*sa_checkpoint_execute 'shell_commands'
sa_conn_info [ connection-id ]
sa_conn_properties [ connection-id ]
sa_conn_properties_by_conn [ property-name ]
sa_conn_properties_by_name [ connection-id ]
```

```
sa_db_info [ database-id ]
sa_db_properties [ database-id ]
sa_eng_properties
sa_flush_cache
sa_server_option option_name, option_value
*sa_validate [ tbl_name, ] [ owner_name, ] [ check_type ]
sp_login_environment
sp_remote_columns servername [ , tablename ] [ , owner ] [ , database ]
sp_remote_exported_keys server_name , sp_name [ , sp_owner ]
  [ , sp_qualifier ]
sp_remote_imported_keys server_name , sp_name [ , sp_owner ]
  [ , sp_qualifier ]
sp_remote_tables servername [ , tablename ] [ , owner ] [ , database ]
sp_servercaps servername
sp_tsq_environment
```

ASIQ 12.5 Multiplex System Procedures (Read the Ref Guide before using)

```
dbo.sp_iq_mpx_init <Do not invoke this procedure>
sp_iqendmpx
dbo.sp_iqendmpx
"DBA".sp_iqevbegintxn
sp_iqmakempx IN l_host_name VARCHAR(40),
  IN l_server_name VARCHAR(30),
  IN l_db_path VARCHAR(1024),
  IN l_port_number VARCHAR(40)
"DBA".sp_iqmpxaddremoteusers IN l_server_name varchar(30) default NULL,
  IN qName varchar(30) default NULL
"DBA".sp_iqmpxaliasdbspace IN _dbspace_name VARCHAR(128),
  IN _server VARCHAR(30),
  IN _path VARCHAR(255) default NULL,
  IN _fromserver VARCHAR(30) default '',
  IN _offset UNSIGNED BIGINT default NULL
dbo.sp_iqmpxcountdbremote
sp_iqmpxcreatepublication IN l_newserver VARCHAR(255) default NULL
sp_iqmpxcreatequeryserver IN l_host_name VARCHAR(40),
  IN l_server_name VARCHAR(30),
  IN l_db_path VARCHAR(1024),
  IN l_port_number VARCHAR(40)
sp_iqmpxdropdbspace IN l_dbpace_name varchar(128)
sp_iqmpxdroppublication
sp_iqmpxdropqueryserver IN l_server_name VARCHAR(30)
sp_iqmpxdropserverdbspaces IN l_server_name varchar(30)
sp_iqmpxdumptvlog
sp_iqmpxexcludeserver IN _server VARCHAR(30), IN _reqStat VARCHAR(10)
dbo.sp_iqmpxmakeclean
sp_iqmpxpostsyncqueryserver
sp_iqmpxprotectexec IN _cmd VARCHAR(1024)
sp_iqmpxreplacewritesserver IN l_new_server_name VARCHAR(30)
sp_iqmpxresetquerysubscription IN l_server_name VARCHAR(30)
sp_iqmpxretryexec IN _cmd VARCHAR(1024), IN _msg VARCHAR(1024)
sp_iqmpxsetpublisher IN l_server_name VARCHAR(30) default NULL
sp_iqmpxstopdbremote
sp_iqmpxsubscribeuser IN _user VARCHAR(30),
  IN _path LONG VARCHAR default NULL,
  IN _perm VARCHAR(15) default 'REMOTE'
sp_iqmpxunsubscribeuser IN _user VARCHAR(30)
dbo.sp_iqmpxvalidate IN _show_msgs CHAR(1) DEFAULT 'Y'
sp_iqmpxversionfetch out CatalogID unsigned bigint, out VersionID unsigned bigint,
  out OAVID unsigned bigint, out ServerType char(1),
  out CatalogSync char(1), out WCatalogID unsigned bigint,
  out WVersionID unsigned bigint
sp_iqmpxversioninfo
```

ASIQ 12.5 ASE Compatability System Procedures (* = new, + = changed)

```
sp_addgroup group-name
sp_addlogin userid, password [ , defdb [ , deflanguage [ , fullname ] ] ]
sp_addmessage messagenum, message_text [ , language ]
sp_addtype typename, datatype, [ , "identity" | nulltype ]
sp_adduser login_name [ , name_in_db [ , grpname ] ]
```

```
sp_changegroup new-groupname, userid
*sp_dboption [ dbname, optname, { true | false } ] – Not supported
sp_dropgroup group-name
sp_droplogin userid
sp_dropmessage messagenumber [, language ]
sp_droptype typename
sp_dropuser userid
sp_getmessage message-num, @msg-var output [, language ]
+sp_helptext 'owner.object-name' – Must supply owner
sp_password caller_passwd, new_passwd [, userid ]
```

ASIQ 12.5 ASE Compatability Catalogue Procedures

```
sp_columns [ table-name [, table-owner] [, tablequalifier] [, column-name] ]
sp_fkeys [ phtable_name [, phtable-owner] [, phtablequalifier] [, fhtable-name]
[, fhtable_owner] [, fhtablequalifier] ]
sp_pkeys table-name [, table_owner] [, table_qualifier ]
sp_special_columns table_name [, table-owner] [, table-qualifier] [, col-type ]
sp_sproc_columns proc-name [, proc_owner] [, proc-qualifier] [, column-name]
sp_stored_procedures [ sp-name [, sp-owner] [, sp-qualifier] ]
sp_tables [ table-name [, table-owner] [, table-qualifier] [, table-type] ]
```

ASIQ 12.5 Extended Procedures (^ = implemented as a function)

```
^xp_cmdshell [ command, redir_output ]
^xp_msver [ option ]
^xp_read_file file-name
xp_scanf input_buffer, format, [ , out param1 char (254) ... [ , out param50 char (254) ] ]
^xp_sendmail recipient, subject, cc_recipient, bcc_recipient, query, message,
attachname, attach_result, echo_error, include_file, no_column_header,
no_output, width, separator, dbuser, dbname, type, include_query
xp_sprintf out output_buffer, format, [ , param1 ... [ , param50 ] ]
^xp_startmail [ mail_user, mail_password ]
^xp_stopmail
^xp_write_file file-name, file-contents
```

ASIQ 12.5 General Database Options (* = change with care)

To view options from every section together, enter SET in DBISQL with nothing else

General Database Option	Values	Default
AGGREGATION_PREFERENCE	-3 to 3	0
APPEND_LOAD	ON, OFF	OFF
BACKUP_EXEC_CMD	n/a	n/a
BIT_VECTOR_PINNABLE_CACHE_PERCENT*	0-100	40
BLOCKING	OFF	OFF
BT_PREFETCH_SIZE	0 to 100	10
CACHE_PARTITIONS	power of 2, 0 to 64	0
CHECKPOINT_TIME	number of minutes	60
CIS_ROWSET_SIZE	integer	50
COMMAND_STATS	ON, OFF	OFF
CONVERT_HG_TO_1242	ON, OFF	OFF
CONVERT_VARCHAR_TO_1242	ON, OFF	OFF
COOPERATIVE_COMMIT_TIMEOUT	integer	250
COOPERATIVE_COMMITS	ON, OFF	ON
CURSOR_WINDOW_ROWS	20 to 100000	200
DATE_FIRST_DAY_OF_WEEK	0 to 6	0
DATE_FORMAT	string	'YYYY-MM-DD'
DATE_ORDER	'Y MD', 'D MY', 'M DY'	'YMD'
DBCC_PINNABLE_CACHE_PERCENT	0 to 100	50
DELAYED_COMMIT_TIMEOUT	integer	500
DELAYED_COMMITS	OFF	OFF
DISABLE_RI_CHECK	ON, OFF	OFF
DISK_STRIPING	ON, OFF	ON
ENABLE_PUSHDOWN_JOINS	ON, OFF	ON
EXTENDED_JOIN_SYNTAX	ON, OFF	ON
FORCE_DROP	ON, OFF	OFF

General Database Option	Values	Default
FORCE_NO_SCROLL_CURSORS	ON, OFF	OFF
FP_PREDICATE_WORKUNIT_PAGES	integer	400
FP_PREFETCH_SIZE	0 to 100	10
GARRAY_FILL_FACTOR_PERCENT	0 to 1000	25
GARRAY_INSERT_PREFETCH_SIZE	0 to 100	3
GARRAY_RO_PREFETCH_SIZE	0 to 100	10
HASH_PINNABLE_CACHE_PERCENT*	0 to 100	20
HASH_THRASHING_PERCENT	0 to 100	10
HG_DELETE_METHOD	0, 1, or 2	0
HG_SEARCH_RANGE	integer	10
INDEX_PREFERENCE	-10 to 10	0
IQMSG_LENGTH_MB	integer (MB)	0 (no limit)
ISOLATION_LEVEL	0, 1, 2, 3	0
JAVA_HEAP_SIZE	integer	1000000
JAVA_NAMESPACE_SIZE	integer	4000000
JOIN_EXPANSION_FACTOR	0 to 100	30
JOIN_OPTIMIZATION	ON, OFF	ON
JOIN_PREFERENCE	-7 to 7	0
JOIN_SIMPLIFICATION_THRESHOLD	1 to 64	15
LARGE_DOUBLES_ACCUMULATOR	ON, OFF	OFF
LF_BITMAP_CACHE_KB	1 to 8	4
LOAD_MEMORY_MB	0 to 500	0
LOG_CONNECT	ON, OFF	ON
LOG_CURSOR_OPERATIONS	ON, OFF	OFF
LOGIN_MODE	STANDARD, MIXED, INTEGRATED	STANDARD
LOGIN_PROCEDURE	string	sp_iq_process_login
MAIN_CACHE_MEMORY_MB	1 to 4194303	16
MAIN_RESERVED_DBSPACE_MB	integer > 0 in MB	200
MAX_CARTESIAN_RESULT	integer	10000000
MAX_CUBE_RESULT	0 to 250000000	10000000
MAX_CURSOR_COUNT	integer	50
MAX_HASH_ROWS	integer to 250000000	2500000
MAX_IQ_THREADS_PER_CONNECTION	2 to 1000	72
MAX_JOIN_ENUMERATION	1 to 64	15
MAX_QUERY_PARALLELISM	integer <= # CPUs	24
MAX_STATEMENT_COUNT	integer	50
MAX_WARNINGS	integer	2^64 - 1
MIN_PASSWORD_LENGTH	integer >= 0	0 characters
MINIMIZE_STORAGE	ON, OFF	OFF
NOEXEC	ON, OFF	OFF
NON_ANSI_NULL_VARCHAR	ON, OFF	OFF
NOTIFY_MODULUS	integer	100000
OS_FILE_CACHE_BUFFERING	ON, OFF	OFF
OUT_OF_DISK_MESSAGE_REPEAT	integer	120
OUT_OF_DISK_WAIT_TIME	integer	30
PARALLEL_GBH_ENABLED	ON, OFF	ON
PARALLEL_GBH_UNITS	0 to 100	0
PRECISION	126	126
PREFETCH	ON, OFF	ON
PREFETCH_BUFFER_LIMIT	integer	0
PREFETCH_BUFFER_PERCENT	0 to 100	40
PREFETCH_FP_PERCENT	0 to 100	50
PREFETCH_GARRAY_PERCENT	0 to 100	60
PREFETCH_SORT_PERCENT	0 to 100	50
QUERY_DETAIL	ON, OFF	OFF
QUERY_NAME	string	empty string
QUERY_PLAN	ON, OFF	ON
QUERY_PLAN_AFTER_RUN	ON, OFF	OFF
QUERY_PLAN_AS_HTML	ON, OFF	OFF

General Database Option	Values	Default
QUERY_ROWS_RETURNED_LIMIT	integer	0
QUERY_TEMP_SPACE_LIMIT	integer	2000
QUERY_TIMING	ON, OFF	OFF
RECOVERY_TIME	number of minutes	2
ROW_COUNT	integer	0
SCALE	0 to 126	38
SORT_PHASE1_HELPERS	integer	3
SORT_PINNABLE_CACHE_PERCENT*	0 to 100	20
SWEEPER_THREADS_PERCENT	1 to 40	10
TEMP_CACHE_MEMORY_MB	1 to 4194303	8
TEMP_EXTRACT_APPEND	ON, OFF	OFF
TEMP_EXTRACT_BINARY	ON, OFF	OFF
TEMP_EXTRACT_COLUMN_DELIMITER	string	''
TEMP_EXTRACT_NAME1 - TEMP_EXTRACT_NAME8	string	'' (empty string)
TEMP_EXTRACT_NULL_AS_ZERO	ON, OFF	OFF
TEMP_EXTRACT_QUOTE	string	'' (empty string)
TEMP_EXTRACT_QUOTES	ON, OFF	OFF
TEMP_EXTRACT_QUOTES_ALL	ON, OFF	OFF
TEMP_EXTRACT_ROW_DELIMITER	string	'' (empty string)
TEMP_EXTRACT_SIZE1 - TEMP_EXTRACT_SIZE8	AIX & HP-UX:0 - 64GB Sun Solaris:0 - 512GB Windows:0 - 128GB	0
TEMP_EXTRACT_SWAP	ON, OFF	OFF
TEMP_RESERVED_DBSPACE_MB	integer > 0 in MB	200
TIME_FORMAT	string	'HH:NN:ss.SSS'
TIMESTAMP_FORMAT	string	'YYYY-MM-DD HH:NN:ss.SSS'
TRIM_PARTIAL_MBC	ON, OFF	OFF
TRUNCATE_WITH_AUTO_COMMIT	ON, OFF	ON
USE_OLD_GROUPBY_ALGORITHM	ON, OFF	OFF
USER_RESOURCE_RESERVATION	integer	1
VIRTUAL_BACKUP	ON, OFF	OFF
WASH_AREA_BUFFERS_PERCENT	1 to 100	20
WAIT_FOR_COMMIT	ON, OFF	OFF

ASIQ 12.5 T-SQL Compatibility Options (* = not supported by ASIQ)

T-SQL Compatibility Option	Values	Default
ALLOW_NULLS_BY_DEFAULT	ON, OFF	ON
ANSI_BLANKS*		
ANSI_CLOSE_CURSORS_ON_ROLLBACK	ON	ON
ANSI_INTEGER_OVERFLOW*		
ANSI_PERMISSIONS	ON, OFF	ON
ANSINULL	ON, OFF	ON
ANSI_UPDATE_CONSTRAINTS	OFF, CURSORS, STRICT	CURSORS
AUTOMATIC_TIMESTAMP	OFF	OFF
CHAINED	ON, OFF	ON
CLOSE_ON_ENDTRANS	ON	ON
CONTINUE_AFTER_RAISEERROR	ON, OFF	OFF
CONVERSION_ERROR	ON, OFF	ON
DIVIDE_BY_ZERO_ERROR	ON, OFF	ON
ESCAPE_CHARACTER*	ON	ON
FIRE_TRIGGERS*		
FLOAT_AS_DOUBLE	ON, OFF	OFF
NEAREST_CENTURY	0 to 100	50
NON_KEYWORDS	Comma separated keywords list	No keywords turned off

T-SQL Compatibility Option	Values	Default
ON_TSQL_ERROR	STOP, CONTINUE, CONDITIONAL	CONDITIONAL
PERCENT_AS_COMMENT	ON, OFF	ON
QUERY_PLAN_ON_OPEN*		
QUOTED_IDENTIFIER	ON, OFF	ON
RI_TRIGGER_TIME*		
SQL_FLAGGER_ERROR_LEVEL	E, I, F, W	W
SQL_FLAGGER_WARNING_LEVEL	E, I, F, W	W
STRING_RTRUNCATION	ON, OFF	OFF
TEXTSIZE*		
TSQL_HEX_CONSTANT	ON, OFF	OFF
TSQL_VARIABLES	ON, OFF	OFF

ASIQ 12.5 DBISQL Options (* = not supported by ASIQ)

DBISQL Option	Values	Default
AUTO_COMMIT	ON, OFF	OFF
AUTO_REFETCH	ON, OFF	ON
BELL	ON, OFF	ON
CHAR_OEM_TRANSLATION	ON, OFF, DETECT	DETECT
COMMAND_DELIMITER	string	','
COMMIT_ON_EXIT	ON, OFF	ON
ECHO	ON, OFF	ON
HEADINGS	ON, OFF	ON
INPUT_FORMAT*		
ISQL_LOG	file name	''
NULLS	ON, OFF	NULL
ON_ERROR	STOP, CONTINUE, PROMPT, EXIT, NOTIFY_CONTINUE, NOTIFY_STOP, NOTIFY_EXIT	PROMPT
STATISTICS	0, 3, 4, 5, 6	3
TRUNCATION_LENGTH	integer	30

ASIQ 12.5 Server Properties (use with the function “property” or use sa_eng_properties to view all properties)

Server Property	Description
ActiveReq	The number of server threads that are currently handling a request.
AvailIO	<i>Undocumented</i>
BufferMisses	The total number of network buffer allocations exceeding the connection buffer pool.
BuildChange	Reserved
BuildClient	Reserved
BuildProduction	<i>Undocumented</i>
BuildReproducible	Reserved
BytesReceived	The number of bytes received during client/server communications.
BytesSent	The number of bytes sent during client/server communications.
C2	<i>Undocumented</i>
CacheHitsEng	The number of database page lookups.
CacheReadEng	<i>Undocumented</i>
CacheReplacements	The number of pages in the cache that have been replaced.
CharSet	The character set in use by the database server.
CompanyName	The name of the company owning this software.
ConnsDisabled	The number of connections disabled.
CurrentCacheSize	<i>Undocumented</i>
DefaultCollation	For ASIQ databases, a reasonable alternative to the default collation. ISO_BINENG is the default collation for all ASIQ databases created as of version 12.4.2. This behavior differs from Adaptive Server Anywhere, where the DefaultCollation server property shows the collation that would be used for new databases, if none is explicitly specified.

Server Property	Description
DiskReadEng	<i>Undocumented</i>
FreeBuffers	The number of available network buffers.
IsNetworkServer	Returns YES if connected to a network database server, and NO if connected to a personal database server.
IsRuntimeServer	<i>Undocumented</i>
JavaGlobFix	Java VM global fixed size.
Language	The locale language for the server.
LegalCopyright	The copyright string for the software.
LegalTrademarks	Trademark information for the software.
LicenseCount	<i>Undocumented</i>
LicenseType	<i>Undocumented</i>
LicensedCompany	<i>Undocumented</i>
LicensedUser	<i>Undocumented</i>
LivenessTimeout	<i>Undocumented</i>
LockedHeapPages	The number of heap pages locked in the cache.
MainHeapBytes	The number of bytes used for global server data structures.
MainHeapPages	The number of pages used for global server data structures.
MaxCacheSize	<i>Undocumented</i>
MaxMessage	<i>Undocumented</i>
Message	The initial message displayed in the server window on startup.
MinCacheSize	<i>Undocumented</i>
MultiPacketsReceived	The number of multi-packet deliveries received during client/server communications.
MultiPacketsSent	The number of multi-packet deliveries sent during client/server communications.
Name	The name of the server.
NumProcessorsAvail	<i>Undocumented</i>
NumProcessorsMax	<i>Undocumented</i>
PacketsCorrupted	The number of packets corrupted during client/server communications.
PacketsDropped	The number of client/server communication packets dropped.
PacketsReceived	The number of client/server communication packets received.
PacketsRereceived	The number of duplicate client/server communication packets received.
PacketsResent	The number of client/server communication packets resent.
PacketsSent	The number of client/server communication packets sent.
PageSize	<i>Undocumented</i>
PeakCacheSize	<i>Undocumented</i>
PendingReq	The number of new requests detected by the server. <i>Unsupported ?</i>
Platform	The operating system on which the software is running.
ProcessCPU	Process CPU usage.
ProcessCPUSystem	Process CPU system usage.
ProcessCPUUser	Process CPU user usage.
ProductName	The name of the software.
ProductVersion	The version of the software being run.
QuittingTime	Shutdown time for the server. If none is specified, the value is none.
RememberLastStatement	<i>Undocumented</i>
RemoteputWait	The number of times the communication link has had to wait because it does not have buffers available to send information. This statistic is collected for NetBIOS and IPX protocols only.
Req	The number of times the server has been entered to allow it to handle a new request or continue processing an existing request.
RequestLogFile	<i>Undocumented</i>

Server Property	Description
RequestLogging	ON or OFF. If ON, then the server is logging requests to the output file.
RequestQueueWait	The number of times the server has had to wait for room in the request queue.
SendFail	<i>Undocumented</i>
ServerIdleWaits	<i>Undocumented</i>
TotalBuffers	<i>Undocumented</i>
UnschReq	The number of requests that are currently queued up waiting for an available server thread.
WaitReadSys	The number of read requests posted from the system connection that must be satisfied by a synchronous read operation. The system connection is a special connection, used as the context before a connection is made and for operations performed outside of any client connection. <i>Unsupported ?</i>
WaitReadTemp	The number of read requests for a temporary table that must be satisfied by a synchronous read operation. <i>Unsupported ?</i>
WaitReadUnkn	The number of read requests from other sources that must be satisfied by a synchronous read operation. <i>Unsupported ?</i>

ASIQ 12.5 Database Properties (use with the function “db_property” or use sa_db_properties to view all database properties)

Database Property	Description
Alias	The database name.
BlankPadding	The status of the blank padding feature. Returns ON if the database has blank padding enabled.
CacheHits	The number of database page lookups satisfied by finding the page in the cache.
CacheRead	The number of database pages that have been looked up in the cache.
CacheReadIndInt	The number of index internal-node pages that have been read from the cache.
CacheReadIndLeaf	The number of index leaf pages that have been read from the cache.
CacheReadTable	The number of table pages that have been read from the cache.
CaseSensitive	The status of the case sensitivity feature. Returns ON if the database is case sensitive.
CharSet	The character set of the database.
CheckpointUrgency	The time that has elapsed since the last checkpoint, as a percentage of the checkpoint time setting of the database.
Chkpt	The number of checkpoints that have been performed.
ChkptFlush	The number of ranges of adjacent pages written out during a checkpoint.
ChkptPage	The number of transaction log checkpoints.
Collation	<i>Undocumented</i>
CommitFile	The number of times the server has forced a flush of the disk cache. On Windows and NetWare platforms, the disk cache does not need to be flushed if unbuffered (direct) IO is used.
Compression	<i>Undocumented</i>
ConnCount	The number of connections to the database.
CurrIO	The current number of file I/Os that were issued by the server but have not yet completed.
CurrRead	The current number of file reads that were issued by the server but have not yet completed.
CurrWrite	The current number of file writes that were issued by the server but have not yet completed.
CurrentRedoPos	<i>Undocumented</i>
DiskRead	The number of pages that have been read from disk.
DiskReadIndInt	The number of index internal-node pages that have been read from disk.

Database Property	Description
DiskReadIndLeaf	The number of index leaf pages that have been read from disk.
DiskReadTable	The number of table pages that have been read from disk.
DiskWrite	The number of modified pages that have been written to disk.
Encryption	<i>Undocumented</i>
ExtendDB	The number of pages by which the database file has been extended.
ExtendTempWrite	The number of pages by which temporary files have been extended.
File	The file name of the database root file, including path.
FileVersion	The version of the database file.
FullCompare	The number of comparisons that have been performed beyond the hash value in an index.
GetData	<i>Undocumented</i>
GlobalDBId	<i>Undocumented</i>
IOToRecover	<i>Undocumented</i>
IQStore	ON for all ASIQ databases.
IdleCheck	The number of times that the server's idle thread has become active to do idle writes, idle checkpoints, and so on.
IdleChkpt	The number of checkpoints completed by the server's idle thread. An idle checkpoint occurs whenever the idle thread writes out the last dirty page in the cache.
IdleChkTime	The number of 100ths of a second spent checkpointing during idle IO.
IdleWrite	The number of disk writes that have been issued by the server's idle thread.
IndAdd	The number of entries that have been added to indexes.
IndLookup	The number of entries that have been looked up in indexes.
JavaHeapSize	Heap size per Java VM.
JavaNSSize	Java VM Namespace size.
LTMGeneration	<i>Undocumented</i>
LTMTrunc	<i>Undocumented</i>
Language	The locale language of the database
LockTablePages	The number of pages used to store lock information.
LogFreeCommit	The number of Redo Free Commits. A "Redo Free Commit" occurs when a commit of the transaction log is requested but the log has already been written (so the commit was done for "free").
LogName	The file name of the transaction log, including path.
LogWrite	The number of pages that have been written to the transaction log.
MapPages	The number of map pages used for accessing the lock table, frequency table, and table layout.
MaxIO	The maximum value that Curr IO has reached.
MaxRead	The maximum value that Curr Read has reached.
MaxWrite	The maximum value that Curr Write has reached.
MultiByteCharSet	ON if the database uses a multi-byte character set, and OFF if the character set is single byte.
Name	The database name (identical to alias).
PageRelocations	The number of relocatable heap pages that have been read from the temporary file.
PageSize	The page size of the Catalog Store, in bytes.
ProcedurePages	The number of relocatable heap pages that have been used for procedures.
ReadOnly	ON if the database is being run in read-only mode. OFF if the database is not being run in read-only mode.
RecoveryUrgency	An estimate of the amount of time required to recover the database.
RelocatableHeapPages	The number of pages used for relocatable heaps (cursors, statements, procedures, triggers, views, etc.).
RemoteTrunc	<i>Undocumented</i>

Database Property	Description
RollbackLogPages	The number of pages in the rollback log.
SyncTrunc	<i>Undocumented</i>
TriggerPages	The number of relocatable heap pages used for triggers.
ViewPages	The number of relocatable heap pages used for views.

ASIQ 12.5 Connection Properties (use with the function "connection_property" or use sa_conn_properties / sa_conn_properties_by_conn / sa_conn_properties_by_name to view all connection properties)

Connection Property	Description
Abort_On_Error_File	<i>Undocumented</i>
Abort_On_Error_Line	<i>Undocumented</i>
Abort_On_Error_Number	<i>Undocumented</i>
Aggregate_Index_Cutover	<i>Undocumented</i>
Aggregation_Preference	<i>Undocumented</i>
Allow_nulls_by_default	ALLOW_NULLS_BY_DEFAULT option [TSQL]
Allow_replication_pkey_update	<i>Undocumented</i>
Allow_sync_pkey_update	<i>Undocumented</i>
Ansinull	ANSINULL option [TSQL]
Ansi_blanks	ANSI_BLANKS option
Ansi_close_cursors_on_rollback	ANSI_CLOSE_CURSORS_ON_ROLLBACK option [TSQL]
Ansi_integer_overflow	ANSI_INTEGER_OVERFLOW option
Ansi_permissions	ANSI_PERMISSIONS option [TSQL]
Ansi_update_constraints	<i>Undocumented</i>
Append_Load	<i>Undocumented</i>
AppInfo	AppInfo connection parameter
Ase_Binary_Display	<i>Undocumented</i>
Attention_Limit	<i>Undocumented</i>
Auditing	<i>Undocumented</i>
Automatic_timestamp	AUTOMATIC_TIMESTAMP option [TSQL]
Background_priority	<i>Undocumented</i>
Backup_Exec_Cmd	<i>Undocumented</i>
Backup_Free_Space	<i>Undocumented</i>
BITMAP_Options1	<i>Undocumented</i>
Bitmap_Percent_Factor	<i>Undocumented</i>
Bit_Vector_Pinnable_Cache_Percent	<i>Undocumented</i>
BlockedOn	If the current connection is not blocked this is zero. If it is blocked, the connection number on which the connection is blocked due to a locking conflict.
Blocking	BLOCKING option
BT_Prefetch_Size	<i>Undocumented</i>
Buffer_Cache_Wash_Intensity	<i>Undocumented</i>
CacheHits	The number of successful reads of the cache.
CacheRead	The number of database pages that have been looked up in the cache.
CacheReadIndInt	The number of index internal-node pages that have been read from the cache.
CacheReadIndLeaf	The number of index leaf pages that have been read from the cache.
CacheReadTable	The number of table pages that have been read from the cache.
Cache_Partitions	<i>Undocumented</i>
Chained	CHAINED option [TSQL]
CharSet	<i>Undocumented</i>
Checkpoint_time	CHECKPOINT_TIME option
Check_Alias_Enabled	<i>Undocumented</i>
Cis_option	Reserved
Cis_rowset_size	Reserved
ClientLibrary	Either CmdSeq for ODBC and Embedded SQL connections, or TDS for JDBC and Open Client connections.

Connection Property	Description
Close_on_endtrans	CLOSE_ON_ENDTRANS option [TSQL]
Command_Stats	<i>Undocumented</i>
Command_Stats_Dump_File	<i>Undocumented</i>
Command_Stats_Dump_Table_Format	<i>Undocumented</i>
Command_Stats_Sampling_Period	<i>Undocumented</i>
Command_Stats_Verbosity	<i>Undocumented</i>
Commit	The number of Commit requests that have been handled.
CommLink	The communication link for the connection. This is one of the network protocols supported by Adaptive Server IQ, or is "local" for a same-machine connection. <i>Not shown by sa_conn_properties</i>
CommProtocol	Returns CmdSeq for Adaptive Server IQ protocol (ODBC and Embedded SQL) or TDS for Open Client and jConnect connections. <i>Not shown by sa_conn_properties</i>
Connection_authentication	<i>Undocumented</i>
Continue_after_raisererror	CONTINUE_AFTER_RAISERROR option [TSQL]
Conversion_error	CONVERSION_ERROR option [TSQL]
Convert_HG_To_1242	<i>Undocumented</i>
Convert_Varchar_To_1242	<i>Undocumented</i>
Cooperative_commits	COOPERATIVE_COMMITS option
Cooperative_commit_timeout	COOPERATIVE_COMMIT_TIMEOUT option
CORE_Options1	<i>Undocumented</i>
CORE_Options3 → 13	<i>Undocumented</i>
CurrTaskSwitch	The number of current request context switches.
Cursor	The number of declared cursors that are currently being maintained by the server.
CursorOpen	The number of open cursors that are currently being maintained by the server.
Cursor_Window_Rows	<i>Undocumented</i>
Database_authentication	<i>Undocumented</i>
Date_First_Day_Of_Week	<i>Undocumented</i>
Date_format	DATE_FORMAT option
Date_order	DATE_FORMAT option
Dbcc_Log_Block_Numbers	<i>Undocumented</i>
DBCC_Pinnable_Cache_Percent	<i>Undocumented</i>
DBNumber	The ID number of the database.
DDL_Information	<i>Undocumented</i>
DDL_Options2	<i>Undocumented</i>
Default_Like_Match_Selectivity	<i>Undocumented</i>
Default_Like_Range_Selectivity	<i>Undocumented</i>
Default_timestamp_increment	DEFAULT_TIMESTAMP_INCREMENT option
Delayed_commit_timeout	DELAYED_COMMIT_TIMEOUT option
Delayed_commits	DELAYED_COMMITS option
Disable_RI_Check	<i>Undocumented</i>
DiskRead	The number of pages that have been read from disk.
DiskReadIndInt	The number of index internal-node pages that have been read from disk.
DiskReadIndLeaf	The number of index leaf pages that have been read from disk.
DiskReadTable	The number of table pages that have been read from disk.
DiskWrite	The number of modified pages that have been written to disk.
Disk_Striping	<i>Undocumented</i>

Connection Property	Description
Disk_Striping_Packed	<i>Undocumented</i>
Divide_by_zero_error	DIVIDE_BY_ZERO_ERROR option [TSQL]
DmContext_Display_Limit	<i>Undocumented</i>
DML_Options1 → 8	<i>Undocumented</i>
DML_Options10 → 31	<i>Undocumented</i>
DML_Options33 → 38	<i>Undocumented</i>
Early_Resource_Release	<i>Undocumented</i>
Escape_character	ESCAPE_CHARACTER option
EventName	<i>Undocumented</i>
Exchange_Enabled	<i>Undocumented</i>
Exchange_Unit_Size	<i>Undocumented</i>
Extended_join_syntax	<i>Undocumented</i>
Fire_triggers	<i>Undocumented</i>
First_day_of_week	<i>Undocumented</i>
Flatten_Subqueries	<i>Undocumented</i>
Float_as_double	FLOAT_AS_DOUBLE option [TSQL]
Force_Drop	<i>Undocumented</i>
Force_Fixed_Width_Numerics	<i>Undocumented</i>
Force_No_Scroll_Cursors	<i>Undocumented xxx</i>
FP_Lookup_Distinct_Check	<i>Undocumented</i>
FP_Lookup_Distinct_Ratio	<i>Undocumented</i>
FP_Lookup_Size	<i>Undocumented</i>
FP_Predicate_Workunit_Pages	<i>Undocumented</i>
FP_Prefetch_Size	<i>Undocumented</i>
FullCompare	The number of comparisons that have been performed beyond the hash value in an index.
Garray_Fill_Factor_Percent	<i>Undocumented</i>
Garray_Insert_Prefetch_Size	<i>Undocumented</i>
Garray_Page_Split_Pad_Percent	<i>Undocumented</i>
Garray_RO_Prefetch_Size	<i>Undocumented</i>
GetData	<i>Undocumented</i>
Give_Error_On_Control_C	<i>Undocumented</i>
Global_database_id	<i>Undocumented</i>
Hash_Pinnable_Cache_Percent	<i>Undocumented</i>
Hash_Thrashing_Percent	<i>Undocumented</i>
HG_Delete_Method	<i>Undocumented</i>
HG_Search_Range	<i>Undocumented</i>
Hos_MemCheck	<i>Undocumented</i>
Hpux_PBO_Shutdown	<i>Undocumented</i>
IndAdd	The number of entries that have been added to indexes.
Index_Preference	<i>Undocumented</i>
IndLookup	The number of entries that have been looked up in indexes.
Infer_Subquery_Predicates	<i>Undocumented</i>
Initialize_Memory_To_Ones_On_Allocation	<i>Undocumented</i>
IN_Subquery_Preference	<i>Undocumented</i>
IO_Exerciser_param_file	<i>Undocumented</i>
IQMSG_Length_MB	<i>Undocumented</i>
Isolation_level	<i>Undocumented</i>
JavaHeapSize	<i>Undocumented</i>
Java_heap_size	JAVA_HEAP_SIZE option
Java_input_output	JAVA_INPUT_OUTPUT option
Java_namespace_size	JAVA_NAMESPACE_SIZE option
Java_page_buffer_size	The page buffer size used by the Java VM
Join_Expansion_Factor	<i>Undocumented</i>
Join_Optimization	<i>Undocumented</i>

Connection Property	Description
Join_Preference	<i>Undocumented</i>
Join_Simplification_Threshold	<i>Undocumented</i>
Language	The locale language
Large_Doubles_Accumulator	<i>Undocumented</i>
LastIdle	The number of ticks between requests.
LastReqTime	The time at which the last request for the specified connection started.
LastStatement	<i>Undocumented</i>
LF_Bitmap_Cache_KB	<i>Undocumented</i>
Load_Memory_MB	<i>Undocumented</i>
LockName	<i>Undocumented</i>
Lock_rejected_rows	Reserved
LogFreeCommit	The number of Redo Free Commits. A "Redo Free Commit" occurs when a commit of the transaction log is requested but the log has already been written (so the commit was done for "free").
Login_mode	LOGIN_MODE option
Login_procedure	LOGIN_PROCEDURE option
LogWrite	The number of pages that have been written to the transaction log.
Log_Connect	<i>Undocumented</i>
Log_Cursor_Operations	<i>Undocumented</i>
Main_Cache_Memory_MB	<i>Undocumented</i>
Main_Reserved_DBSpace_MB	<i>Undocumented</i>
Max_Cartesian_Result	<i>Undocumented</i>
Max_Cube_Result	<i>Undocumented</i>
Max_cursor_count	MAX_CURSOR_COUNT option
Max_Hash_Rows	<i>Undocumented</i>
Max_hash_size	<i>Undocumented</i>
Max_IQ_Threads_Per_Connection	<i>Undocumented</i>
Max_IQ_Threads_Per_Team	<i>Undocumented</i>
Max_Join_Enumeration	<i>Undocumented</i>
Max_Query_Parallelism	<i>Undocumented</i>
Max_Spinlock_Loop	<i>Undocumented</i>
Max_statement_count	MAX_STATEMENT_COUNT option
Max_Threads	<i>Undocumented</i>
Max_Warnings	<i>Undocumented</i>
Max_work_table_hash_size	<i>Undocumented</i>
Memory_Leaks_Visible	<i>Undocumented</i>
Memory_Snapshot_First	<i>Undocumented</i>
Memory_Snapshot_Increment	<i>Undocumented</i>
Minimize_Storage	<i>Undocumented</i>
Min_NLPDJ_Table_Size	<i>Undocumented</i>
Min_password_length	MIN_PASSWORD_LENGTH option
Min_SMPDJ_or_HPDI_Filtered_Size	<i>Undocumented</i>
Min_SMPDJ_or_HPDI_Indirect_Size	<i>Undocumented</i>
Min_SMPDJ_or_HPDI_Table_Size	<i>Undocumented</i>
Mutex_Trigger_Percent	<i>Undocumented</i>
Mutex_Trigger_Threshold	<i>Undocumented</i>
Mutex_Trigger_Try_Ratio_Threshold	<i>Undocumented</i>
Name	The name of the server.
Nearest_century	NEAREST_CENTURY option [TSQL]
NodeAddress	The node for the client in a client/server connection.
NoExec	<i>Undocumented</i>
Non_Ansi_Null_Varchar	NON_ANSI_NULL_VARCHAR option

Connection Property	Description
Non_keywords	NON_KEYWORDS option [TSQL]
Notify_Modulus	<i>Undocumented</i>
No_Row_Reject	<i>Undocumented</i>
Number	The ID number of the connection.
Numeric_Overflow_Error	<i>Undocumented</i>
N_Emerg_Buffers	<i>Undocumented</i>
On_tsq_error	ON_TSQL_ERROR option [TSQL]
Optimization_goal	<i>Undocumented</i>
Optimization_level	<i>Undocumented</i>
OS_File_Cache_Buffering	<i>Undocumented</i>
OS_Options2	<i>Undocumented</i>
OS_Option_Crash	<i>Undocumented</i>
Out_Of_Disk_Message_Repeat	<i>Undocumented</i>
Out_Of_Disk_Wait_Time	<i>Undocumented</i>
Parallel_GBH_Enabled	<i>Undocumented</i>
Parallel_GBH_Units	<i>Undocumented</i>
Percent_as_comment	PERCENT_AS_COMMENT option [TSQL]
Port	An application-specific number for each client machine, identifying the connection port.
Precision	PRECISION option
Prefetch	PREFETCH option
Prefetch_Buffer_Limit	<i>Undocumented</i>
Prefetch_Buffer_Percent	<i>Undocumented</i>
Prefetch_FP_Percent	<i>Undocumented</i>
Prefetch_Garray_Percent	<i>Undocumented</i>
Prefetch_Sort_Percent	<i>Undocumented</i>
Prefetch_Threads_Percent	<i>Undocumented</i>
Prepares	Number of statement preparations carried out.
PrepStmt	The number of prepared statements that are currently being maintained by the server.
ProcessTime	The time since the start of the connection. <i>Not shown by sa_conn_properties</i>
Query_Detail	<i>Undocumented</i>
Query_Name	<i>Undocumented</i>
Query_Plan	<i>Undocumented</i>
Query_Plan_After_Run	<i>Undocumented</i>
Query_Plan_As_HTML	<i>Undocumented</i>
Query_plan_on_open	Not supported by Adaptive Server IQ
Query_Rows_Returned_Limit	<i>Undocumented</i>
Query_Temp_Space_Limit	<i>Undocumented</i>
Query_Timing	<i>Undocumented</i>
Quoted_identifier	QUOTED_IDENTIFIER option [TSQL]
Recovery_time	RECOVERY_TIME option
Replicate_all	REPLICATE_ALL option
ReqType	A string for the type of the last request.
Return_date_time_as_string	<i>Undocumented</i>
Return_java_as_string	<i>Undocumented</i>
RI_Trigger_time	<i>Undocumented</i>
Ribk	The number of Rollback requests that have been handled.
RollbackLogPages	The number of pages in the rollback log
Row_Count	<i>Undocumented</i>
Row_counts	<i>Undocumented</i>
ROW_Prefetch_Size	<i>Undocumented</i>
Scale	SCALE option
SignificantDigitsForDoubleEquality	<i>Undocumented</i>
Sort_Phase1_Helpers	<i>Undocumented</i>
Sort_Pinnable_Cache_Percent	<i>Undocumented</i>
SQL_flagger_error_level	SQL_FLAGGER_ERROR_LEVEL option [TSQL]

Connection Property	Description
SQL_flagger_warning_level	SQL_FLAGGER_WARNING_LEVEL option [TSQL]
Stats_Condition_Variables	<i>Undocumented</i>
Stats_Mutexes	<i>Undocumented</i>
Stats_Recursive_Mutexes	<i>Undocumented</i>
Stats_Recursive_RW_Locks	<i>Undocumented</i>
Stats_RW_Locks	<i>Undocumented</i>
Stats_Semaphores	<i>Undocumented</i>
Stats_Spinlocks	<i>Undocumented</i>
Stats_Threads	<i>Undocumented</i>
String_rtruncation	STRING_RTRUNCATION option [TSQL]
Striping_Density	<i>Undocumented</i>
Sweeper_Threads_Percent	<i>Undocumented</i>
TaskSwitch	The number of times the current server thread has been changed.
TDS_Empty_string_is_null	<i>Undocumented</i>
Temp_Cache_Memory_MB	<i>Undocumented</i>
Temp_Extract_Append	<i>Undocumented</i>
Temp_Extract_Binary	<i>Undocumented</i>
Temp_Extract_Column_Delimiter	<i>Undocumented</i>
Temp_Extract_Name1 → 8	<i>Undocumented</i>
Temp_Extract_Null_As_Empty	<i>Undocumented</i>
Temp_Extract_Null_As_Zero	<i>Undocumented</i>
Temp_Extract_Quote	<i>Undocumented</i>
Temp_Extract_Quotes	<i>Undocumented</i>
Temp_Extract_Quotes_All	<i>Undocumented</i>
Temp_Extract_Row_Delimiter	<i>Undocumented</i>
Temp_Extract_Size1 → 8	<i>Undocumented</i>
Temp_Extract_Swap	<i>Undocumented</i>
Temp_Reserved_DBSpace_MB	<i>Undocumented</i>
Test_Attention_Location	<i>Undocumented</i>
ThreadMgr_Silence	<i>Undocumented</i>
ThreadMgr_SpecialPool	<i>Undocumented</i>
Thread_count	THREAD_COUNT option
Thread_stack	Thread stack size
Thread_Stacksize_KB	<i>Undocumented</i>
Thread_swaps	Reserved
Timestamp_format	TIMESTAMP_FORMAT option
Time_format	TIME_FORMAT option
Trim_Partial_MBC	<i>Undocumented</i>
Truncate_date_values	<i>Undocumented</i>
Truncate_timestamp_values	<i>Undocumented</i>
Truncate_with_auto_commit	<i>Undocumented</i>
Tsql_hex_constant	TSQL_HEX_CONSTANT option [TSQL]
Tsql_variables	TSQL_VARIABLES option [TSQL]
UncommitOp	The number of uncommitted operations
Unicode_Collation_Name	<i>Undocumented</i>
Upgrade_database_capability	<i>Undocumented</i>
Userid	The user ID for the connection.
User_Resource_Reservation	<i>Undocumented</i>
Use_Old_GroupBy_Algorithm	<i>Undocumented</i>
UtilCmdsPermitted	<i>Undocumented</i>
Virtual_Backup	<i>Undocumented</i>
Wait_for_commit	WAIT_FOR_COMMIT option

Connection Property	Description
Wash_Area_Buffers_Percent	<i>Undocumented</i>

Starting ASIQ 12.5

```
start_asiq -n server-name
[ other-server-options ] [ database-file [ database-options ] ]
```

ASIQ 12.5 Start Options

Start Option	Description
@filename	Read in options from configuration file
@envvar	Read in options from environment variable
-c cache-size	Set initial Catalog Store cache size.
-ca 0	Disable dynamic Catalog Store cache sizing
-ch size	Set Catalog Store cache size upper limit (not recommended)
-cl size	Set the cache size lower limit (not recommended)
-ct	Enable character-set translation
-d	Disable asynchronous I/O [Windows NT]
-e	Enable packet encryption
-ga	Automatically unload database after last connection closed
-gb level	Set database process priority class to level [Windows NT]
-gc num	Set checkpoint timeout period to num minutes
-gd level	Set the permission required to start and stop databases
-ge size	Sets the stack size for threads that run external functions [Windows NT]
-gk level	Set the permission required to stop the server
-gl level	Set the permission required to load data
-gm level	Limit the number of connections to the server that can be active at one time. If this number is greater than the number that is allowed under licensing constraints, it has no effect. The value should approximate the number of users expected to connect to the server. The default is 10 connections.
-gn integer	Set the number of execution threads that will be used for the Catalog Store and connectivity while running with multiple users.
-gp size	Set maximum page size to size bytes
-gr num	Set maximum recovery time to num minutes
-gu level	Utility commands permission level: utility_db, all, none, dba
-h or ?	Display usage information
-iqgovern num	Specify the number of concurrent queries
-iqmc size	Specify the main cache size in MB. (Overrides default.)
-iqmt num	Specify the number of threads that IQ can use on a multi-threaded system. The default is 60*numCPU+2*num_conn+1. The minimum value is 2*num_conn+1.
-iqmpx_ov 1	For use starting multiplex databases only. Starts the server with override, to indicate that no other server is currently running against the same database. To prevent data corruption, make sure all query servers are stopped before you use the -iqmpx_ov 1 parameter. Sybase Central is the preferred method of starting multiplex databases. For details, see Adaptive Server IQ Multiplex User's Guide.
-iqmpx_sn 1	For use starting multiplex databases only. Starts the write server in single-node operating mode, for certain types of recovery. For details, see Adaptive Server IQ Multiplex User's Guide.
-iqpartition	Specify number of partitions in main and temp buffer caches
-iqsmem size	Specify the size in MB of an additional memory pool for HP and IBM UNIX platforms
-iqtc size	Specify temporary cache size in MB. (Overrides default.)
-iqtss size	Specify the thread stack size in KB.
-iqwmem size	Specify the size in MB of a special memory pool that cannot be paged for HP and Sun UNIX platforms
-m	Truncate transaction log after checkpoint, for all databases
-n name	Use name as the name of the database server. Note : There are two -n options. The -n option is positional. If it appears after a database file name, it has a different meaning.
-o filename	Output server messages to the specified file

Start Option	Description
-os	Specify maximum size of file for server messages
-p packet-size	Set maximum network packet size
-q	Quiet mode - suppress output
-s	Set the syslog facility ID (none, user, daemon, local0,..., local7) [UNIX]
-ti min	Client idle time before shutdown : default 240 minutes
-tl sec	Default liveness timeout for clients in seconds : default is 120 seconds
-tq time	Set quitting time
-ud	Run as a daemon [UNIX] (not recommended; not used with start_asiq)
-ut min	Touch temporary files every min minutes [UNIX]
-v	Display database server version and stop
-x list	Comma separated list of communication links to try
-z	Provide diagnostic information on communication links
-zo	Specify file for logging server requests
-zr level	Enable server request-level logging
-zs	Specify maximum size of file for server request logging

ASIQ 12.5 Start Options for Recovery

Recovery Option	Description
-iqdroplks dbname	Allow the sp_iqcheckdb stored procedure to recover leaked storage within the specified database.
-iqfrec dbname	Mark the specified database as in use and restore database to its last known consistent state.
-m	Truncate transaction log after checkpoint
-n name	Name the database. Note : There are two -n options. The -n option is positional. If it appears after a database file name, it is a database option. Otherwise, it is a server option.

ASIQ 12.5 Database Administration Utilities

CP874toUTF8 [CP874InputFile]

dbcollat [switches] output-file

dbdsn [modifier-switches]
 { -l [u] [s]
 | -d [u] [s] dsn
 | -g [u] [s] dsn
 | -w [u] [s] dsn [details-switches;...]
 | -cl
 }

dbinfo [switches]

dbisql [switches] [dbisql-command | command-file]

dbisqlc [switches] [dbisqlc-command | command-file]

dblocate [switches]

dblog [switches] database-file

dbping [switches]

dbstop [switches] name

dbvalid [switches] [object-name,...]

sqlpp [switches] sql-filename [output-filename]

ASIQ 12.5 Connection Parameters

Connection Parameter	Code	Usage	Default
AppInfo	App	Anywhere	Empty string
AutoPreCommit	AutoPre Commit	ODBC	NO
AutoStart	Astart	Anywhere	YES

Connection Parameter	Code	Usage	Default
AutoStop	Astop	Embedded databases	YES
CharSet	CS	Anywhere	Locale character set
CommBufferSize	CBSize	Anywhere	512
CommBufferSpace	CBSpace	Anywhere	10
CommLinks	Links	Anywhere	Use only the shared memory communications link to connect
ConnectionName	CON	Not available for ODBC	No connection name
DatabaseFile	DBF	Embedded databases	None
DatabaseName	DBN	Running network servers	None
DatabaseSwitches	DBS	Connecting to a server when the database is not loaded.	No switches
DataSourceName	DSN	Anywhere	None
Debug	DBG	Anywhere	No diagnostic information
DisableMultiRowFetch	DMRF	Anywhere	NO
EngineName	ENG	Network servers	The default local database server
EncryptedPassword	ENP	Anywhere	None
Encryption	ENC	Anywhere	No encryption
FileDataSourceName	FileDSN	Anywhere	None
Integrated	INT	Anywhere	NO
LivenessTimeout	LTO	Network server on TCP/IP and IPX	120 seconds
LogFile	LOG	Network server	No log file
Password	PWD	Anywhere	No password provided
PrefetchRows	PROWS	Anywhere	10
PrefetchBuffer	PBUF	Anywhere	32 (KB)
ServerName	ENG	Network servers	The default local database server
StartLine	START	Embedded databases	No StartLine parameter
Unconditional	UNC	Anywhere	NO
Userid	UID	Anywhere	None

ASIQ 12.5 Network Communications Parameters

N/W Parameter	Code	Usage	Default
ClientPort	CPort	TCP/IP (Client side only)	Assigned dynamically
DoBroadcast		TCP/IP (all platforms), IPX (Windows NT only)	YES
DLL		TCP/IP (Windows NT)	ws2_32.dll
Host	IP	TCP/IP	No additional machines.
MaxLANA		NetBIOS	255
MyIP		TCP/IP	None
RegisterBindery	REGBIN	IPX (Windows NT only). Server side only.	TRUE
SearchBindery	BINSEARCH	IPX (Windows NT only)	YES
ServerPort	PORT	TCP/IP	2638
Sessions		NetBIOS (Server side only)	Operating system specific. On Windows NT, the default is 16.

N/W Parameter	Code	Usage	Default
TDS		TCP/IP, NamedPipes (Server side only)	YES
Threads		IPX (Windows NT only)	2
ThreadStats	STATS	IPX (Windows NT only)	NULL
Timeout	TO	TCP/IP, IPX (all platforms)	5 seconds.
UseUDP	UDP	TCP/IP (Client only)	ON
VerifyServerName	Verify	TCP/IP (Client only)	YES

Disclaimer

The information contained in this quick reference guide has been copied verbatim from the ASIQ 12.5 Technical Library's Reference Manual. The only changes made were for formatting and correcting obvious mistakes; and validating the procedures and server, database and connection properties information. The information above could still contain errors, so please do not hold the information as gospel.

Version 1.0 : Raymond Mardle, 14th January 2004

Sources

The template for this quick reference guide was the Replication Server quick reference guide created by Rob Verschoor (see <http://www.sypron.nl/>).

The information came from the Sybase ASIQ 12.5 Technical Library

How to assemble the pages into a booklet:

1. Print the file (paper size should be A4). You may need to adjust the page margins or the space between the columns if it doesn't print correctly; there should be about 7 millimetres (~ 5/12 inch) free space at the left and right margins (if you can't get it printed correctly, you can always change the layout to 1 column/page, and so some manual cut-and-pasting).
2. Cut off the blank bottom part of the pages
3. Fold the printed pages, so that there is one column on each folded side.
4. Stack the folded pages
5. Staple the folded pages together at the left-hand margin
6. If you don't like the sight of those staples, cover them with a bit of sticky tape.

