

# SQL Queries - CAST Knowledge Base - Queries on metrics and diagnostics - How to get the Number of code lines at application or system level in the Knowledge Base

## Purpose

This page explains how to get the number of code lines at application/system level in the knowledge Base. The page is relevant for the following cases:

- One application with more than one module.
- One system with more than one application.
- One system with one application containing more than one module.

## Applicable in CAST Version

Release	Yes/No
8.3.x	✓

## Applicable RDBMS

RDBMS	Yes/No
Oracle Server	✓
Microsoft SQL Server	✓
CSS	✓

## Details

### If the Number of code line is calculated at the System level

**PLEASE NOTE: THE QUERIES BELOW ARE ONLY VALID IN CAST AIP 8.3.36 AND BELOW. FOR CAST AIP 8.3.37 AND ABOVE YOU MUST MODIFY THE QUERIES AS FOLLOWS:**

- change references:
  - properties = 0
- to
  - properties & 255 = 0

1. Get the list of APPLICATION\_ID(s) belonging to the identified system: on Central base

```
SELECT site_object_id
FROM dss_translation_table
WHERE object_id IN (SELECT module_id
FROM dss_central_selection where application_id
IN (SELECT next_object_id
FROM dss_links
WHERE
previous_object_id IN (SELECT
object_id
FROM
dss_objects
WHERE
object_name LIKE '<system_name>' )
)
)
```

For example:

```
SELECT site_object_id
FROM dss_translation_table
WHERE object_id IN (SELECT module_id
FROM dss_central_selection where application_id
IN (SELECT next_object_id
FROM dss_links
WHERE
previous_object_id IN (SELECT
object_id
FROM
dss_objects
WHERE
object_name LIKE '%My System%' )
)
)
-- 95510
--174003
```

2. Query for Number Of Code Lines on Knowledge base:

```
SELECT SUM(infval)
FROM objinf
WHERE idobj IN (SELECT DISTINCT ( object_id )
FROM ctt_object_applications
WHERE application_id IN (list of APPLICATION_ID)
AND properties = 0)
AND infotyp = 1
AND infsubtyp = 0
```

For example:

```
SELECT SUM(infval)
FROM objinf
WHERE idobj IN (SELECT DISTINCT ( object_id )
FROM ctt_object_applications
WHERE application_id IN (95510, 174003)
AND properties = 0)
AND infotyp = 1
AND infsubtyp = 0
```

**If the Number of code lines is calculated at Application level**

1. Get list of APPLICATION\_ID(s) belonging to the identified Application on Central base:

```
SELECT object_id
FROM dss_objects
WHERE object_id IN (SELECT module_id
                    FROM dss_central_selection
                    WHERE application_id IN (SELECT object_id
                                           FROM dss_objects where OBJECT_NAME
                                           like '<application_name>'))
```

For example:

```
SELECT object_id
FROM dss_objects
WHERE object_id IN (SELECT module_id
                    FROM dss_central_selection
                    WHERE application_id IN (SELECT object_id
                                           FROM dss_objects where OBJECT_NAME like '%cpp%'))

--5652
--5702
```

2. Query for Number of code Lines on Knowledge base:

```
SELECT SUM(infval)
FROM objinf
WHERE idobj IN (SELECT DISTINCT ( object_id )
                FROM ctt_object_applications
                WHERE application_id IN (list of APPLICATION_ID)
                AND properties = 0)
AND inftyp = 1
AND infsubtyp = 0
```

For example:

```
SELECT SUM(infval)
FROM objinf
WHERE idobj IN (SELECT DISTINCT ( object_id )
                FROM ctt_object_applications
                WHERE application_id IN (5652,5702)
                AND properties = 0)
AND inftyp = 1
AND infsubtyp = 0
```

**Notes/comments**

**Related Pages**

[CAST Engineering Dashboard - Metrics - Lines of code - Unexpected increase or decrease](#)