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## Slow sql processing in Oracle Prod (vs Test)

- **Article Type:** General
  - **Product:** Aleph
  - **Product Version:** 20
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### Description:

We are concerned about a serious difference in sql processing between test and prod environments.

For example, the query below takes about 6 seconds in test, and 150 seconds in prod (30 times longer), for the same result. About the same on other days.

```
SELECT ABC01.Z13.Z13_REC_KEY||'ABC01' FROM ABC01.Z13,ABC60.Z13,ABC60.Z103
WHERE substr(Z103_REC_KEY,6,9)=ABC60.Z13.Z13_REC_KEY
AND substr(Z103_REC_KEY_1,6,9)=ABC01.Z13.Z13_REC_KEY
AND substr(Z103_REC_KEY_1,1,5)='ABC01'
AND ABC60.Z13.Z13_OPEN_DATE = '20120220';
```

What could cause the difference? Do you have ideas of what could be done to optimize oracle on production ?

### Resolution:

Following the principles described in KB 16384-25265, I executed the following query on Production:

```
SELECT /*+ DYNAMIC_SAMPLING(2) ALL_ROWS */ABC01.Z13.Z13_REC_KEY||'ABC01' FROM
ABC01.Z13,ABC60.Z13,ABC60.Z103
WHERE substr(Z103_REC_KEY,6,9)=ABC60.Z13.Z13_REC_KEY
AND substr(Z103_REC_KEY_1,6,9)=ABC01.Z13.Z13_REC_KEY
AND substr(Z103_REC_KEY_1,1,5)='ABC01'
AND ABC60.Z13.Z13_OPEN_DATE = '20120220';
```

It took about 10 seconds.

We suggest that you add the DYNAMIC SAMPLING hint to all of \*your own\* SQL queries -- especially those involving the z103.

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