|  |  |  |  |
| --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **JOB** | **MGR** |
| **7369** | **SMITH** | **CLERK** | **7902** |
| **7499** | **ALLEN** | **SALESMAN** | **7698** |
| **7521** | **WARD** | **SALESMAN** | **7698** |
| **7566** | **JONES** | **MANAGER** | **7839** |
| **7654** | **MARTIN** | **SALESMAN** | **7698** |
| **7698** | **BLAKE** | **MANAGER** | **7839** |
| **7782** | **CLARK** | **MANAGER** | **7839** |
| **7788** | **SCOTT** | **ANALYST** | **7566** |
| **7839** | **KING** | **PRESIDENT** |  |
| **7844** | **TURNER** | **SALESMAN** | **7698** |
| **7876** | **ADAMS** | **CLERK** | **7788** |
| **7900** | **JAMES** | **CLERK** | **7698** |
| **7902** | **FORD** | **ANALYST** | **7566** |
| **7934** | **MILLER** | **CLERK** | **7782** |

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| --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **JOB** | **MGR** |
| **7369** | **SMITH** | **CLERK** | **7902** |
| **7499** | **ALLEN** | **SALESMAN** | **7698** |
| **7521** | **WARD** | **SALESMAN** | **7698** |
| **7566** | **JONES** | **MANAGER** | **7839** |
| **7654** | **MARTIN** | **SALESMAN** | **7698** |
| **7698** | **BLAKE** | **MANAGER** | **7839** |

**Data Pushed into Operational Buffer**

**Data Arranged By it’s Storage in the Database Server**

**Paging Services**

**1**

**0**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ROWNUM** | **EMPNO** | **ENAME** | **JOB** | **MGR** |
| **1** | **7369** | **SMITH** | **CLERK** | **7902** |
| **2** | **7499** | **ALLEN** | **SALESMAN** | **7698** |
| **3** | **7521** | **WARD** | **SALESMAN** | **7698** |
| **4** | **7566** | **JONES** | **MANAGER** | **7839** |

**WHERE ROWNUM > 4**

**Default Values And Variables Maintained In Oracle Internal Architecture**

**1**

**WHERE CurrentRownum = ROWNUM + CurrentRownum**

**Data Pushed into Result Buffer**

**Result Buffer**

**SQL>SELECT ROWNUM, Empno, Ename, Job, MGR**

**FROM EMP**

**WHERE ROWNUM <4;**

**OUTPUT SERVER**

**SGA**

**ROWNUM=1**

**CURRENTROWNUM =0**