

Sathish Yellanki Institute of Software Solutions	
Announcing A New Batch	
OF	
Oracle Performance And Tuning	
With In-Depth Coverage on SQL Tuning And PL/SQL Tuning With Issue Based Approach, Including AWR, Statspack, Enterprise Manager etc...	
Date : 21st May 2018	Time : 11.00 AM
If You Are Looking For Good Positions And Scaling in The Career of Databases With Oracle, This Course is Ideal For You, All The Aspirants Aiming With Experience in Their Resume Can Avail This Course	
<u>Contact Details</u> Flat No : 201, 2 nd Floor, Abhilash Tower SR Nagar Main Road, Near SR Nagar Community Hall. Land Mark : Just Bake Bakery, Hyderabad. Phone : 040-23710047, 9985798869	

SkyEss Techno Solutions Pvt. Ltd.
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Ph No. 040 23710047, Mobile: 9985798869, **WhatsApp:9985798869**
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SQL> cl scr

SQL> SELECT Deptno, Dname, Loc
2 FROM Dept;

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

SQL> ED
Wrote file afiedt.buf

```
1 SELECT D1.*
2 FROM
3 (
4 SELECT Deptno, Dname, Loc
5 FROM Dept
6* ) D1
SQL> /
```

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

SQL> ED
Wrote file afiedt.buf

```
1 SELECT D1.Dname, D1.Loc
2 FROM
3 (
4 SELECT Deptno, Dname, Loc
5 FROM Dept
6* ) D1
SQL> /
```

DNAME	LOC
ACCOUNTING	NEW YORK
RESEARCH	DALLAS
SALES	CHICAGO

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Spool File For Oracle Students Trained by Mr.Sathish Yellanki

OPERATIONS BOSTON

SQL> cl scr

SQL> SELECT Empno, Ename, Deptno, Sal
2 FROM Emp;

EMPNO	ENAME	DEPTNO	SAL
7839	KING	10	5000
7698	BLAKE	30	2850
7782	CLARK	10	2450
7566	JONES	20	2975
7654	MARTIN	30	1250
7499	ALLEN	30	1600
7844	TURNER	30	1500
7900	JAMES	30	950
7521	WARD	30	1250
7902	FORD	20	3000
7369	SMITH	20	800
7788	SCOTT	20	3000
7876	ADAMS	20	1100
7934	MILLER	10	1300

14 rows selected.

SQL> SELECT Deptno, AVG(Sal) SalAvg
2 FROM Emp
3 GROUP BY Deptno;

DEPTNO	SALAVG
30	1566.66667
20	2175
10	2916.66667

SQL> ED

Wrote file afiedt.buf

```
1 SELECT OE.Empno, OE.Ename, OE.Deptno, OE.Sal, IE.SalAvg
2 FROM Emp OE,
3 (
4 SELECT Deptno, AVG(Sal) SalAvg
5 FROM Emp
6 GROUP BY Deptno
7 ) IE
8* WHERE OE.Deptno = IE.Deptno
```

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SQL> /

EMPNO	ENAME	DEPTNO	SAL	SALAVG
7521	WARD	30	1250	1566.66667
7900	JAMES	30	950	1566.66667
7844	TURNER	30	1500	1566.66667
7499	ALLEN	30	1600	1566.66667
7654	MARTIN	30	1250	1566.66667
7698	BLAKE	30	2850	1566.66667
7876	ADAMS	20	1100	2175
7788	SCOTT	20	3000	2175
7369	SMITH	20	800	2175
7902	FORD	20	3000	2175
7566	JONES	20	2975	2175
7934	MILLER	10	1300	2916.66667
7782	CLARK	10	2450	2916.66667
7839	KING	10	5000	2916.66667

14 rows selected.

```
SQL> SELECT E.Ename, E.Sal, E.Deptno, E1.SalAvg
2  FROM Emp E,
3  (
4  SELECT Deptno, AVG(Sal) SalAvg
5  FROM Emp
6  GROUP BY Deptno
7  ) E1
8  WHERE E.Deptno = E1.Deptno AND
9  E.Sal > E1.SalAvg;
```

ENAME	SAL	DEPTNO	SALAVG
ALLEN	1600	30	1566.66667
BLAKE	2850	30	1566.66667
SCOTT	3000	20	2175
FORD	3000	20	2175
JONES	2975	20	2175
KING	5000	10	2916.66667

6 rows selected.

```
SQL> SELECT
2  E.Ename,
3  E.Sal,
4  E.Deptno,
5  ROUND(E1.SalAvg, 2) DeptAvgSal,
```

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```
6 ROUND(E.Sal - E1.SalAvg) DiffSalAvg
7 FROM Emp E,
8 (
9 SELECT Deptno, AVG(Sal) SalAvg
10 FROM Emp
11 GROUP BY Deptno
12 ) E1
13 WHERE E.Deptno = E1.Deptno
14 ORDER BY Deptno
15 /
```

ENAME	SAL	DEPTNO	DEPTAVGSAL	DIFFSALAVG
KING	5000	10	2916.67	2083
CLARK	2450	10	2916.67	-467
MILLER	1300	10	2916.67	-1617
JONES	2975	20	2175	800
FORD	3000	20	2175	825
SMITH	800	20	2175	-1375
SCOTT	3000	20	2175	825
ADAMS	1100	20	2175	-1075
BLAKE	2850	30	1566.67	1283
MARTIN	1250	30	1566.67	-317
ALLEN	1600	30	1566.67	33
TURNER	1500	30	1566.67	-67
JAMES	950	30	1566.67	-617
WARD	1250	30	1566.67	-317

14 rows selected.

SQL> cl scr

```
SQL> SELECT
2 E.Ename,
3 E.Sal,
4 E.Deptno,
5 E1.SalSum
6 FROM Emp E,
7 (
8 SELECT Deptno, SUM(Sal) SalSUM
9 FROM Emp
10 GROUP BY Deptno
11 ) E1
12 WHERE E.Deptno = E1.Deptno
13 ORDER BY Deptno;
```

ENAME	SAL	DEPTNO	SALSUM
-------	-----	--------	--------

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```
-----
KING                5000                10                8750
CLARK                2450                10                8750
MILLER              1300                10                8750
JONES               2975                20               10875
FORD                3000                20               10875
SMITH                800                 20               10875
SCOTT               3000                20               10875
ADAMS               1100                20               10875
BLAKE               2850                30                9400
MARTIN              1250                30                9400
ALLEN               1600                30                9400
TURNER              1500                30                9400
JAMES                950                 30                9400
WARD               1250                30                9400
-----
```

14 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```

1  SELECT
2  E.Ename,
3  E.Sal,
4  E.Deptno,
5  E1.SalSum,
6  E1.Staff,
7  E1.SalAvg
8  FROM Emp E,
9   (
10  SELECT
11  Deptno,
12  SUM(Sal) SalSum,
13  COUNT(*) Staff,
14  AVG(Sal) SalAvg
15  FROM Emp
16  GROUP BY Deptno
17  ) E1
18  WHERE E.Deptno = E1.Deptno
19* ORDER BY Deptno
SQL> /
```

```
-----
ENAME                SAL                DEPTNO                SALSUM                STAFF                SALAVG
-----
KING                5000                10                8750                3 2916.66667
CLARK                2450                10                8750                3 2916.66667
MILLER              1300                10                8750                3 2916.66667
-----
```

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```
.....
JONES          2975          20          10875          5          2175
FORD           3000          20          10875          5          2175
SMITH          800           20          10875          5          2175
SCOTT          3000          20          10875          5          2175
ADAMS          1100          20          10875          5          2175
BLAKE          2850          30           9400          6 1566.66667
MARTIN         1250          30           9400          6 1566.66667
ALLEN          1600          30           9400          6 1566.66667
TURNER         1500          30           9400          6 1566.66667
JAMES          950           30           9400          6 1566.66667
WARD           1250          30           9400          6 1566.66667
```

14 rows selected.

SQL> cl scr

```
SQL> SELECT
  2  T1.Deptno, Dname, Staff
  3  FROM Dept T1,
  4  (
  5  SELECT Deptno, COUNT(*) AS Staff
  6  FROM Emp
  7  GROUP BY Deptno
  8  ) T2
  9  WHERE T1.Deptno = T2.Deptno
 10  AND Staff >= 5;
```

DEPTNO	DNAME	STAFF
30	SALES	6
20	RESEARCH	5

SQL> ED
Wrote file afiedt.buf

```
1  SELECT
2  T1.Deptno, Dname, COUNT(*) Staff
3  FROM Dept T1, Emp T2
4  WHERE T1.Deptno = T2.Deptno
5  GROUP BY T1.Deptno, Dname
6*  HAVING COUNT(*) >= 5
SQL> /
```

DEPTNO	DNAME	STAFF
20	RESEARCH	5
30	SALES	6

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SQL> cl scr

SQL> SELECT Deptno, SUM(Sal) SalSum
2 FROM Emp
3 GROUP BY Deptno;

DEPTNO	SALSUM
30	9400
20	10875
10	8750

SQL> SELECT SUM(Sal) OrgSal FROM Emp;

ORGSAL
29025

SQL> SELECT
2 Deptno,
3 SUM(Sal),
4 SUM(Sal) / Tot_Sal * 100 "Salary%"
5 FROM Emp,
6 (
7 SELECT SUM(Sal) Tot_Sal
8 FROM Emp
9)
10 GROUP BY Deptno, Tot_Sal;

DEPTNO	SUM(SAL)	Salary%
10	8750	30.1464255
20	10875	37.4677003
30	9400	32.3858742

SQL> SELECT Ename, Sal FROM Emp;

ENAME	SAL
KING	5000
BLAKE	2850
CLARK	2450
JONES	2975
MARTIN	1250
ALLEN	1600
TURNER	1500

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```
JAMES          950
WARD           1250
FORD           3000
SMITH          800
SCOTT          3000
ADAMS          1100
MILLER         1300
```

14 rows selected.

```
SQL> SELECT Ename, Sal, (Sal / OrgSal) * 100 "%Sal"
2   FROM Emp,
3   (
4     SELECT SUM(Sal) OrgSal
5     FROM Emp
6   );
```

ENAME	SAL	%Sal
KING	5000	17.2265289
BLAKE	2850	9.81912145
CLARK	2450	8.44099914
JONES	2975	10.2497847
MARTIN	1250	4.30663221
ALLEN	1600	5.51248923
TURNER	1500	5.16795866
JAMES	950	3.27304048
WARD	1250	4.30663221
FORD	3000	10.3359173
SMITH	800	2.75624462
SCOTT	3000	10.3359173
ADAMS	1100	3.78983635
MILLER	1300	4.4788975

14 rows selected.

```
SQL> SELECT
2   Job,
3   SUM(Sal),
4   ROUND(SUM(Sal) / Tot_Sal * 100, 2) "Salary%"
5   FROM Emp,
6   (
7     SELECT SUM(Sal) Tot_Sal
8     FROM Emp
9   )
10  GROUP BY Job, Tot_Sal;
```

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JOB	SUM(SAL)	Salary%
PRESIDENT	5000	17.23
SALESMAN	5600	19.29
ANALYST	6000	20.67
MANAGER	8275	28.51
CLERK	4150	14.3

SQL> cl scr

```
SQL> SELECT
  2  TO_CHAR(HireDate, 'YYYY') Year,
  3  SUM(Sal),
  4  ROUND(SUM(Sal) / Tot_Sal * 100, 2) "Salary%"
  5  FROM Emp,
  6  (
  7    SELECT SUM(Sal) Tot_Sal
  8    FROM Emp
  9  )
 10 GROUP BY TO_CHAR(HireDate, 'YYYY'), Tot_Sal;
```

YEAR	SUM(SAL)	Salary%
1982	4300	14.81
1980	800	2.76
1981	22825	78.64
1983	1100	3.79

```
SQL> COL "DeptNo" FOR 99
SQL> COL "%Employees" FOR 999D99
SQL> COL "%Salary" FOR 999D99
SQL> SELECT
  2  A.Deptno "DeptNo",
  3  (A.NumEmp / B.TotalCount) * 100 "%Employees",
  4  (A.SalSum / B.TotalSal) * 100 "%Salary"
  5  FROM
  6  (
  7    SELECT
  8    Deptno,
  9    COUNT(*) NumEmp,
 10    SUM(Sal) SalSum
 11  FROM Emp
 12  GROUP BY Deptno
 13  ) A,
 14  (
 15  SELECT
 16  COUNT(*) TotalCount,
```

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```
17  SUM(Sal) TotalSal
18  FROM Emp
19  ) B;
```

DeptNo	%Employees	%Salary
10	21.43	30.15
20	35.71	37.47
30	42.86	32.39

SQL> cl scr

```
SQL> SELECT
  2  TO_CHAR(HireDate, 'YYYY') Year,
  3  TO_CHAR(HireDate, 'Month') "Month",
  4  SUM(Sal),
  5  ROUND(SUM(Sal) / Tot_Sal * 100, 2) "Salary%"
  6  FROM Emp,
  7  (
  8  SELECT SUM(Sal) Tot_Sal
  9  FROM Emp
 10  )
 11 WHERE TO_CHAR(HireDate, 'YYYY') = &GiveYear
 12 GROUP BY
 13 TO_CHAR(HireDate, 'YYYY'),
 14 TO_CHAR(HireDate, 'Month'), Tot_Sal;
```

Enter value for giveyear: 1981

YEAR	Month	SUM(SAL)	Salary%
1981	November	5000	17.23
1981	April	2975	10.25
1981	June	2450	8.44
1981	September	2750	9.47
1981	December	3950	13.61
1981	May	2850	9.82
1981	February	2850	9.82

7 rows selected.

SQL> cl scr

```
SQL> SELECT COUNT(*) EmpCount
  2  FROM Emp
  3  /
```

EMPCOUNT

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14

```
SQL> SELECT E.EmpCount, D.DeptCount, S.GradeCnt
2 FROM
3 (
4 SELECT COUNT(*) EmpCount
5 FROM Emp
6 ) E,
7 (
8 SELECT COUNT(*) DeptCount
9 FROM Dept
10 ) D,
11 (
12 SELECT COUNT(*) GradeCnt
13 FROM SalGrade
14 ) S;
```

EMPCOUNT	DEPTCOUNT	GRADECNT
14	4	5

```
SQL> SELECT
2 E.EmpCount,
3 D.DeptCount,
4 S.GradeCnt,
5 E.EmpCount + D.DeptCount + S.GradeCnt TotalRecCnt
6 FROM
7 (
8 SELECT COUNT(*) EmpCount
9 FROM Emp
10 ) E,
11 (
12 SELECT COUNT(*) DeptCount
13 FROM Dept
14 ) D,
15 (
16 SELECT COUNT(*) GradeCnt
17 FROM SalGrade
18 ) S;
```

EMPCOUNT	DEPTCOUNT	GRADECNT	TOTALRECCNT
14	4	5	23

```
SQL> SELECT
2 E.EmpCount,
```

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```
3 D.DeptCount,
4 S.GradeCnt,
5 E.EmpCount + D.DeptCount + S.GradeCnt TotalRecCnt,
6 GREATEST(E.EmpCount, D.DeptCount, S.GradeCnt) HighRecinTab,
7 LEAST(E.EmpCount, D.DeptCount, S.GradeCnt) LowRecinTab
8 FROM
9 (
10 SELECT COUNT(*) EmpCount
11 FROM Emp
12 ) E,
13 (
14 SELECT COUNT(*) DeptCount
15 FROM Dept
16 ) D,
17 (
18 SELECT COUNT(*) GradeCnt
19 FROM SalGrade
20 ) S;
```

EMPCOUNT	DEPTCOUNT	GRADECNT	TOTALRECCNT	HIGHRECINTAB	LOWRECINTAB
14	4	5	23	14	4

SQL> SPOOL OFF

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**Announcing A New Batch For
Big Data With Hadoop Framework**

(Only On-Line)

(Covering Detailed MapReduce, Pig, Hive, HBase, Spark And Scala etc)

B y

Sathish Yellanki

Date : 24th May 2018 Time : 5:30AM To 07.00AM

For Enquiries And Registrations Contact

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