Cesar A. Santiago

COP4710 Database Systems

Pf. Teichert

February 21, 2018

4-1

SQL> SELECT COUNT(\*)

2 FROM Grade;

COUNT(\*)

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209

SQL> SELECT COUNT(\*)

2 FROM Student;

COUNT(\*)

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48

SQL> SELECT COUNT(\*)

2 FROM Section;

COUNT(\*)

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32

We expect: 321024 rows.

SQL> SELECT COUNT(\*)

2 FROM Grade, Student, Section;

COUNT(\*)

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321024

4-2

SQL> SELECT COUNT(SECTION\_ID)

2 FROM Section;

COUNT(SECTION\_ID)

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32

SQL> SELECT COUNT(DISTINCT SECTION\_ID)

2 FROM Grade;

COUNT(DISTINCTSECTION\_ID)

-------------------------

30

There are unused section\_id keys in the Grade\_report table.

4-3

SNAME GRA

------------------------------------------------------------ ---

Phoebe B

Cedric A

Hillary1 B

Holly B

Kelly B

Ken B

Chris B

Cedric B

Steve B

Jessica B

Sadie B

SNAME GRA

------------------------------------------------------------ ---

Holly B

Phoebe B

Hillary1 B

Brenda B

Mario B

Zelda B

17 rows selected.

4-4

a)

1 SELECT COUNT(\*)

2 FROM Student

3 WHERE sname LIKE 'SMITH'

4\* OR sname LIKE 'Smith'

SQL> /

COUNT(\*)

----------

1

b)

1 SELECT COUNT(\*)

2 FROM Student

3\* WHERE sname LIKE '%SMITH%'

SQL> /

COUNT(\*)

----------

0

c)

1 SELECT COUNT(\*)

2 FROM Student

3\* WHERE sname LIKE '%LD'

SQL> /

COUNT(\*)

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0

d) “SMITH-JONES”, “SMITH JR.” “SMITH, JR”

e) No, UPPER and LOWER are Row-Level functions because they work on one row at a time unlike aggregate functions like SUM or AVG.

f)

SQL> EDIT

Wrote file afiedt.buf

1 SELECT sname||'...'

2\* FROM Student

SQL> /

SNAME||'...'

---------------------------------------------------------------------

Lineas...

Mary...

Brenda...

Richard...

Kelly...

Lujack...

Reva...

Elainie...

Harley...

Donald...

Chris...

SNAME||'...'

---------------------------------------------------------------------

Lynette...

Susan...

Monica...

Bill...

Hillary1...

Phoebe...

Holly...

Sadie...

Jessica...

Steve...

Brad...

SNAME||'...'

---------------------------------------------------------------------

Cedric...

Alan...

Rachel...

George...

Jerry...

Cramer...

Fraiser...

Harrison...

Francis...

Smithly...

Sebastian...

SNAME||'...'

---------------------------------------------------------------------

Jake...

Losmith...

Genevieve...

Lindsay...

Stephanie...

Thornton...

Lionel...

Benny...

Gus...

Zelda...

Mario...

SNAME||'...'

---------------------------------------------------------------------

Romona...

Ken...

Smith...

Jake...

48 rows selected.

4-5

SQL> EDIT

Wrote file afiedt.buf

1 SELECT \*

2 FROM Course c

3\* WHERE c.course\_number LIKE 'COSC3%'

SQL> /

COURSE\_NAME

------------------------------------------------------------

COURSE\_NUMBER CREDIT\_HOURS OFFERING\_DEP

------------------------ ------------ ------------

DATA STRUCTURES

COSC3320 4 COSC

DATABASE

COSC3380 3 COSC

OPERATIONS RESEARCH

COSC3701 3 COSC

4-6

SQL> EDIT

Wrote file afiedt.buf

1 SELECT COUNT(DISTINCT s.sname) - COUNT(s.sname)

2\* FROM Student s

SQL> /

COUNT(DISTINCTS.SNAME)-COUNT(S.SNAME)

-------------------------------------

-1

SQL> EDIT

Wrote file afiedt.buf

1 SELECT COUNT(DISTINCT s.stno) - COUNT(s.stno)

2\* FROM Student s

SQL> /

COUNT(DISTINCTS.STNO)-COUNT(S.STNO)

-----------------------------------

0

There is one sname that is not distinct, and no student number that is not distinct.

4-7

SQL> EDIT

Wrote file afiedt.buf

1 SELECT COUNT(\*)

2 FROM Section s

3\* WHERE s.course\_num LIKE 'MATH%'

SQL> /

COUNT(\*)

----------

6

SQL> EDIT

Wrote file afiedt.buf

1 SELECT COUNT(s.course\_num) - COUNT(c.course\_number)

2 FROM Section s, Course c

3 WHERE s.course\_num LIKE 'MATH%'

4\* AND c.course\_number LIKE 'MATH%'

SQL> /

COUNT(S.COURSE\_NUM)-COUNT(C.COURSE\_NUMBER)

------------------------------------------

0

SQL> EDIT

Wrote file afiedt.buf

1 SELECT (COUNT(s.course\_num) - COUNT(c.course\_number)) - COUNT(DISTINCT g.section\_id)

2 FROM Section s, Course c, Grade g

3 WHERE s.course\_num LIKE 'MATH%'

4 AND c.course\_number LIKE 'MATH%'

5\* AND g.section\_id = s.section\_id

SQL> /

(COUNT(S.COURSE\_NUM)-COUNT(C.COURSE\_NUMBER))-COUNT(DISTINCTG.SECTION\_ID)

------------------------------------------------------------------------

-5

These tables show that there is SIX MATH classes in the Section table and just as many in the Courses table, and that the Grade table reuses FIVE of the MATH courses.

4-8

SQL> DESC all\_tables

Name Null? Type

----------------------------------------- -------- ----------------------------

OWNER NOT NULL VARCHAR2(30)

TABLE\_NAME NOT NULL VARCHAR2(30)

TABLESPACE\_NAME VARCHAR2(30)

CLUSTER\_NAME VARCHAR2(30)

IOT\_NAME VARCHAR2(30)

STATUS VARCHAR2(8)

PCT\_FREE NUMBER

PCT\_USED NUMBER

INI\_TRANS NUMBER

MAX\_TRANS NUMBER

INITIAL\_EXTENT NUMBER

NEXT\_EXTENT NUMBER

MIN\_EXTENTS NUMBER

MAX\_EXTENTS NUMBER

PCT\_INCREASE NUMBER

FREELISTS NUMBER

FREELIST\_GROUPS NUMBER

LOGGING VARCHAR2(3)

BACKED\_UP VARCHAR2(1)

NUM\_ROWS NUMBER

BLOCKS NUMBER

EMPTY\_BLOCKS NUMBER

AVG\_SPACE NUMBER

CHAIN\_CNT NUMBER

AVG\_ROW\_LEN NUMBER

AVG\_SPACE\_FREELIST\_BLOCKS NUMBER

NUM\_FREELIST\_BLOCKS NUMBER

DEGREE VARCHAR2(10)

INSTANCES VARCHAR2(10)

CACHE VARCHAR2(5)

TABLE\_LOCK VARCHAR2(8)

SAMPLE\_SIZE NUMBER

LAST\_ANALYZED DATE

PARTITIONED VARCHAR2(3)

IOT\_TYPE VARCHAR2(12)

TEMPORARY VARCHAR2(1)

SECONDARY VARCHAR2(1)

NESTED VARCHAR2(3)

BUFFER\_POOL VARCHAR2(7)

FLASH\_CACHE VARCHAR2(7)

CELL\_FLASH\_CACHE VARCHAR2(7)

ROW\_MOVEMENT VARCHAR2(8)

GLOBAL\_STATS VARCHAR2(3)

USER\_STATS VARCHAR2(3)

DURATION VARCHAR2(15)

SKIP\_CORRUPT VARCHAR2(8)

MONITORING VARCHAR2(3)

CLUSTER\_OWNER VARCHAR2(30)

DEPENDENCIES VARCHAR2(8)

COMPRESSION VARCHAR2(8)

COMPRESS\_FOR VARCHAR2(12)

DROPPED VARCHAR2(3)

READ\_ONLY VARCHAR2(3)

SEGMENT\_CREATED VARCHAR2(3)

RESULT\_CACHE VARCHAR2(7)

SQL> SELECT COUNT(\*)

2 FROM all\_tables;

COUNT(\*)

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156

SQL> SELECT owner, table\_name

2 FROM all\_tables

3 WHERE owner = 'CAS156';

OWNER

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TABLE\_NAME

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CAS156

CUST

CAS156

CUST1

SQL> SELECT \*

2 FROM all\_tables

3 WHERE rownum < 3;

OWNER

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TABLE\_NAME

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TABLESPACE\_NAME

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CLUSTER\_NAME

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IOT\_NAME

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STATUS PCT\_FREE PCT\_USED INI\_TRANS MAX\_TRANS

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INITIAL\_EXTENT NEXT\_EXTENT MIN\_EXTENTS MAX\_EXTENTS PCT\_INCREASE FREELISTS

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FREELIST\_GROUPS LOGGING BAC NUM\_ROWS BLOCKS EMPTY\_BLOCKS AVG\_SPACE

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CHAIN\_CNT AVG\_ROW\_LEN AVG\_SPACE\_FREELIST\_BLOCKS NUM\_FREELIST\_BLOCKS

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DEGREE INSTANCES CACHE

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TABLE\_LOCK SAMPLE\_SIZE LAST\_ANALYZED PARTITION

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IOT\_TYPE TEM SEC NESTED BUFFER\_POOL

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FLASH\_CACHE CELL\_FLASH\_CACHE ROW\_MOVEMENT GLOBAL\_ST

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USER\_STAT DURATION SKIP\_CORRUPT

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MONITORIN

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CLUSTER\_OWNER

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DEPENDENCIES COMPRESSION

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COMPRESS\_FOR DROPPED READ\_ONLY SEGMENT\_C

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RESULT\_CACHE

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SYS

OWNER

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TABLE\_NAME

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TABLESPACE\_NAME

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CLUSTER\_NAME

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IOT\_NAME

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STATUS PCT\_FREE PCT\_USED INI\_TRANS MAX\_TRANS

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CLUSTER\_OWNER

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DEPENDENCIES COMPRESSION

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DUAL

OWNER

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TABLE\_NAME

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TABLESPACE\_NAME

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CLUSTER\_NAME

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IOT\_NAME

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STATUS PCT\_FREE PCT\_USED INI\_TRANS MAX\_TRANS

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INITIAL\_EXTENT NEXT\_EXTENT MIN\_EXTENTS MAX\_EXTENTS PCT\_INCREASE FREELISTS

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MONITORIN

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CLUSTER\_OWNER

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DEPENDENCIES COMPRESSION

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COMPRESS\_FOR DROPPED READ\_ONLY SEGMENT\_C

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RESULT\_CACHE

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SYSTEM

OWNER

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TABLE\_NAME

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TABLESPACE\_NAME

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CLUSTER\_NAME

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IOT\_NAME

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STATUS PCT\_FREE PCT\_USED INI\_TRANS MAX\_TRANS

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INITIAL\_EXTENT NEXT\_EXTENT MIN\_EXTENTS MAX\_EXTENTS PCT\_INCREASE FREELISTS

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CLUSTER\_OWNER

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DEPENDENCIES COMPRESSION

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COMPRESS\_FOR DROPPED READ\_ONLY SEGMENT\_C

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RESULT\_CACHE

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VALID 10 40 1 255

OWNER

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TABLE\_NAME

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TABLESPACE\_NAME

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CLUSTER\_OWNER

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DEPENDENCIES COMPRESSION

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16384 1048576 1 2147483645 1

OWNER

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TABLE\_NAME

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TABLESPACE\_NAME

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DEPENDENCIES COMPRESSION

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OWNER

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STATUS PCT\_FREE PCT\_USED INI\_TRANS MAX\_TRANS

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DEPENDENCIES COMPRESSION

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DEPENDENCIES COMPRESSION

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ENABLED 1 30-MAR-10 NO

OWNER

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TABLE\_NAME

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TABLESPACE\_NAME

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CLUSTER\_NAME

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IOT\_NAME

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STATUS PCT\_FREE PCT\_USED INI\_TRANS MAX\_TRANS

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INITIAL\_EXTENT NEXT\_EXTENT MIN\_EXTENTS MAX\_EXTENTS PCT\_INCREASE FREELISTS

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USER\_STAT DURATION SKIP\_CORRUPT

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MONITORIN

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CLUSTER\_OWNER

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DEPENDENCIES COMPRESSION

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COMPRESS\_FOR DROPPED READ\_ONLY SEGMENT\_C

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N N NO DEFAULT

OWNER

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TABLE\_NAME

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TABLESPACE\_NAME

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CLUSTER\_NAME

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IOT\_NAME

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STATUS PCT\_FREE PCT\_USED INI\_TRANS MAX\_TRANS

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INITIAL\_EXTENT NEXT\_EXTENT MIN\_EXTENTS MAX\_EXTENTS PCT\_INCREASE FREELISTS

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FREELIST\_GROUPS LOGGING BAC NUM\_ROWS BLOCKS EMPTY\_BLOCKS AVG\_SPACE

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IOT\_TYPE TEM SEC NESTED BUFFER\_POOL

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FLASH\_CACHE CELL\_FLASH\_CACHE ROW\_MOVEMENT GLOBAL\_ST

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USER\_STAT DURATION SKIP\_CORRUPT

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MONITORIN

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CLUSTER\_OWNER

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DEPENDENCIES COMPRESSION

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COMPRESS\_FOR DROPPED READ\_ONLY SEGMENT\_C

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RESULT\_CACHE

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DEFAULT DEFAULT DISABLED YES

OWNER

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TABLE\_NAME

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TABLESPACE\_NAME

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CLUSTER\_NAME

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IOT\_NAME

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STATUS PCT\_FREE PCT\_USED INI\_TRANS MAX\_TRANS

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INITIAL\_EXTENT NEXT\_EXTENT MIN\_EXTENTS MAX\_EXTENTS PCT\_INCREASE FREELISTS

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FREELIST\_GROUPS LOGGING BAC NUM\_ROWS BLOCKS EMPTY\_BLOCKS AVG\_SPACE

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TABLE\_LOCK SAMPLE\_SIZE LAST\_ANALYZED PARTITION

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IOT\_TYPE TEM SEC NESTED BUFFER\_POOL

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FLASH\_CACHE CELL\_FLASH\_CACHE ROW\_MOVEMENT GLOBAL\_ST

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USER\_STAT DURATION SKIP\_CORRUPT

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MONITORIN

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CLUSTER\_OWNER

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DEPENDENCIES COMPRESSION

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COMPRESS\_FOR DROPPED READ\_ONLY SEGMENT\_C

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RESULT\_CACHE

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NO DISABLED

OWNER

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TABLE\_NAME

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TABLESPACE\_NAME

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CLUSTER\_NAME

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IOT\_NAME

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STATUS PCT\_FREE PCT\_USED INI\_TRANS MAX\_TRANS

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INITIAL\_EXTENT NEXT\_EXTENT MIN\_EXTENTS MAX\_EXTENTS PCT\_INCREASE FREELISTS

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DEGREE INSTANCES CACHE

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TABLE\_LOCK SAMPLE\_SIZE LAST\_ANALYZED PARTITION

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USER\_STAT DURATION SKIP\_CORRUPT

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MONITORIN

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CLUSTER\_OWNER

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DEPENDENCIES COMPRESSION

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COMPRESS\_FOR DROPPED READ\_ONLY SEGMENT\_C

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RESULT\_CACHE

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YES

OWNER

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TABLE\_NAME

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TABLESPACE\_NAME

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STATUS PCT\_FREE PCT\_USED INI\_TRANS MAX\_TRANS

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USER\_STAT DURATION SKIP\_CORRUPT

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MONITORIN

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CLUSTER\_OWNER

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DEPENDENCIES COMPRESSION

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COMPRESS\_FOR DROPPED READ\_ONLY SEGMENT\_C

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STATUS PCT\_FREE PCT\_USED INI\_TRANS MAX\_TRANS

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INITIAL\_EXTENT NEXT\_EXTENT MIN\_EXTENTS MAX\_EXTENTS PCT\_INCREASE FREELISTS

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FREELIST\_GROUPS LOGGING BAC NUM\_ROWS BLOCKS EMPTY\_BLOCKS AVG\_SPACE

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CHAIN\_CNT AVG\_ROW\_LEN AVG\_SPACE\_FREELIST\_BLOCKS NUM\_FREELIST\_BLOCKS

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DEGREE INSTANCES CACHE

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TABLE\_LOCK SAMPLE\_SIZE LAST\_ANALYZED PARTITION

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IOT\_TYPE TEM SEC NESTED BUFFER\_POOL

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FLASH\_CACHE CELL\_FLASH\_CACHE ROW\_MOVEMENT GLOBAL\_ST

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USER\_STAT DURATION SKIP\_CORRUPT

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DEPENDENCIES COMPRESSION

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STATUS PCT\_FREE PCT\_USED INI\_TRANS MAX\_TRANS

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INITIAL\_EXTENT NEXT\_EXTENT MIN\_EXTENTS MAX\_EXTENTS PCT\_INCREASE FREELISTS

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FREELIST\_GROUPS LOGGING BAC NUM\_ROWS BLOCKS EMPTY\_BLOCKS AVG\_SPACE

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TABLE\_LOCK SAMPLE\_SIZE LAST\_ANALYZED PARTITION

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IOT\_TYPE TEM SEC NESTED BUFFER\_POOL

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USER\_STAT DURATION SKIP\_CORRUPT

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DEPENDENCIES COMPRESSION

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STATUS PCT\_FREE PCT\_USED INI\_TRANS MAX\_TRANS

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FREELIST\_GROUPS LOGGING BAC NUM\_ROWS BLOCKS EMPTY\_BLOCKS AVG\_SPACE

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IOT\_TYPE TEM SEC NESTED BUFFER\_POOL

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STATUS PCT\_FREE PCT\_USED INI\_TRANS MAX\_TRANS

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STATUS PCT\_FREE PCT\_USED INI\_TRANS MAX\_TRANS

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STATUS PCT\_FREE PCT\_USED INI\_TRANS MAX\_TRANS

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STATUS PCT\_FREE PCT\_USED INI\_TRANS MAX\_TRANS

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DEPENDENCIES COMPRESSION

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COMPRESS\_FOR DROPPED READ\_ONLY SEGMENT\_C

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STATUS PCT\_FREE PCT\_USED INI\_TRANS MAX\_TRANS

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INITIAL\_EXTENT NEXT\_EXTENT MIN\_EXTENTS MAX\_EXTENTS PCT\_INCREASE FREELISTS

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FREELIST\_GROUPS LOGGING BAC NUM\_ROWS BLOCKS EMPTY\_BLOCKS AVG\_SPACE

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DEPENDENCIES COMPRESSION

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STATUS PCT\_FREE PCT\_USED INI\_TRANS MAX\_TRANS

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INITIAL\_EXTENT NEXT\_EXTENT MIN\_EXTENTS MAX\_EXTENTS PCT\_INCREASE FREELISTS

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FREELIST\_GROUPS LOGGING BAC NUM\_ROWS BLOCKS EMPTY\_BLOCKS AVG\_SPACE

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STATUS PCT\_FREE PCT\_USED INI\_TRANS MAX\_TRANS

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STATUS PCT\_FREE PCT\_USED INI\_TRANS MAX\_TRANS

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STATUS PCT\_FREE PCT\_USED INI\_TRANS MAX\_TRANS

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STATUS PCT\_FREE PCT\_USED INI\_TRANS MAX\_TRANS

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STATUS PCT\_FREE PCT\_USED INI\_TRANS MAX\_TRANS

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STATUS PCT\_FREE PCT\_USED INI\_TRANS MAX\_TRANS

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DEPENDENCIES COMPRESSION

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TABLESPACE\_NAME

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CLUSTER\_NAME

--------------------------------------------------------------------------------

IOT\_NAME

--------------------------------------------------------------------------------

STATUS PCT\_FREE PCT\_USED INI\_TRANS MAX\_TRANS

------------------------ ---------- ---------- ---------- ----------

INITIAL\_EXTENT NEXT\_EXTENT MIN\_EXTENTS MAX\_EXTENTS PCT\_INCREASE FREELISTS

-------------- ----------- ----------- ----------- ------------ ----------

FREELIST\_GROUPS LOGGING BAC NUM\_ROWS BLOCKS EMPTY\_BLOCKS AVG\_SPACE

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CHAIN\_CNT AVG\_ROW\_LEN AVG\_SPACE\_FREELIST\_BLOCKS NUM\_FREELIST\_BLOCKS

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DEGREE INSTANCES CACHE

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TABLE\_LOCK SAMPLE\_SIZE LAST\_ANALYZED PARTITION

------------------------ ----------- --------------- ---------

IOT\_TYPE TEM SEC NESTED BUFFER\_POOL

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FLASH\_CACHE CELL\_FLASH\_CACHE ROW\_MOVEMENT GLOBAL\_ST

--------------------- --------------------- ------------------------ ---------

USER\_STAT DURATION SKIP\_CORRUPT

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MONITORIN

---------

CLUSTER\_OWNER

--------------------------------------------------------------------------------

DEPENDENCIES COMPRESSION

------------------------ ------------------------

COMPRESS\_FOR DROPPED READ\_ONLY SEGMENT\_C

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RESULT\_CACHE

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DEFAULT

OWNER

--------------------------------------------------------------------------------

TABLE\_NAME

--------------------------------------------------------------------------------

TABLESPACE\_NAME

--------------------------------------------------------------------------------

CLUSTER\_NAME

--------------------------------------------------------------------------------

IOT\_NAME

--------------------------------------------------------------------------------

STATUS PCT\_FREE PCT\_USED INI\_TRANS MAX\_TRANS

------------------------ ---------- ---------- ---------- ----------

INITIAL\_EXTENT NEXT\_EXTENT MIN\_EXTENTS MAX\_EXTENTS PCT\_INCREASE FREELISTS

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FREELIST\_GROUPS LOGGING BAC NUM\_ROWS BLOCKS EMPTY\_BLOCKS AVG\_SPACE

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CHAIN\_CNT AVG\_ROW\_LEN AVG\_SPACE\_FREELIST\_BLOCKS NUM\_FREELIST\_BLOCKS

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DEGREE INSTANCES CACHE

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TABLE\_LOCK SAMPLE\_SIZE LAST\_ANALYZED PARTITION

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IOT\_TYPE TEM SEC NESTED BUFFER\_POOL

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FLASH\_CACHE CELL\_FLASH\_CACHE ROW\_MOVEMENT GLOBAL\_ST

--------------------- --------------------- ------------------------ ---------

USER\_STAT DURATION SKIP\_CORRUPT

--------- --------------------------------------------- ------------------------

MONITORIN

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CLUSTER\_OWNER

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DEPENDENCIES COMPRESSION

------------------------ ------------------------

COMPRESS\_FOR DROPPED READ\_ONLY SEGMENT\_C

------------------------------------ --------- --------- ---------

RESULT\_CACHE

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4-9

Student:

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute: | Rows: | Distinct Rows: | Rows w/o Null: |
| STNO | 48 | 48 | 48 |
| SNAME | 48 | 47 | 48 |
| MAJOR | 45 | 8 | 45 |
| CLASS | 38 | 4 | 38 |
| BDATE | 48 | 25 | 48 |

Grade\_report:

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute: | Rows: | Distinct Rows: | Rows w/o Null: |
| STUDENT\_NUMBER | 209 | 46 | 209 |
| SECTION\_ID | 209 | 30 | 209 |
| GRADE | 114 | 5 | 114 |

Section:

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute: | Rows | Distinct Rows: | Rows w/o Null: |
| SECTION\_ID | 32 | 32 | 32 |
| COURSE\_NUM | 32 | 20 | 32 |
| SEMESTER | 32 | 2 | 32 |
| YEAR | 32 | 5 | 32 |
| INSTRUCTOR | 29 | 15 | 29 |
| BLDG | 29 | 5 | 29 |
| ROOM | 25 | 4 | 25 |

4-10

a)

Count: 9

Sum: 352

AVG: 39.11

MIN: 22

MAX: 85

b)

AVG: 39.2

4-12

1 SELECT MONTHS\_BETWEEN(MAX(s.bdate), MIN(s.bdate)) / 12

2\* FROM Student s

SQL> /

MONTHS\_BETWEEN(MAX(S.BDATE),MIN(S.BDATE))/12

--------------------------------------------

12.7526882