

**Final Project**

**Daisy (Bo) Cho**

**NetID: bsc223**

## Step 2: Columns and Data tab of state table

Oracle SQL Developer : Table CHO\_DAI5Y\_STSCI5060FP.STATE\_T@Final Project Daisy

The screenshot displays the Oracle SQL Developer interface. The main window shows the 'Columns' tab for the table 'STATE\_T'. The table is located in the 'Final Project Daisy' schema. The 'Columns' tab shows the following columns:

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1 STCODE	VARCHAR2 (2 BYTE)	Yes	(null)	1	(null)
2 STNAME	VARCHAR2 (26 BYTE)	Yes	(null)	2	(null)
3 STABB	CHAR (2 BYTE)	Yes	(null)	3	(null)

The left pane shows the 'Connections' tree with the 'Final Project Daisy' connection selected. The 'Reports' pane at the bottom shows a list of report types, including 'All Reports', 'Analytic View Reports', 'Data Dictionary Reports', 'Data Modeler Reports', 'OLAP Reports', 'TimesTen Reports', and 'User Defined Reports'.

Oracle SQL Developer : Table CHO\_DAI5Y\_STSCIS060FP.STATE\_T@Final Project Daisy

File Edit View Navigate Run Team Tools Window Help

Connections

Oracle Connections

Daisy

Final Project Daisy

Tables (Filtered)

STATE\_T

Views

Indexes

Packages

Procedures

Functions

Operators

Queues

Queue Tables

Triggers

Types

Sequences

Materialized Views

Materialized View Logs

Synonyms

Public Synonyms

Database Links

Public Database Links

Directories

Editions

Reports

All Reports

Analytic View Reports

Data Dictionary Reports

Data Modeler Reports

OLAP Reports

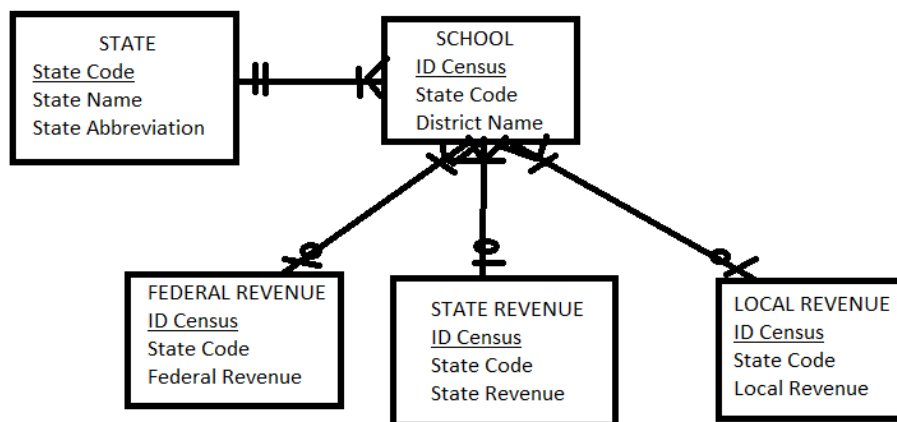
TimesTen Reports

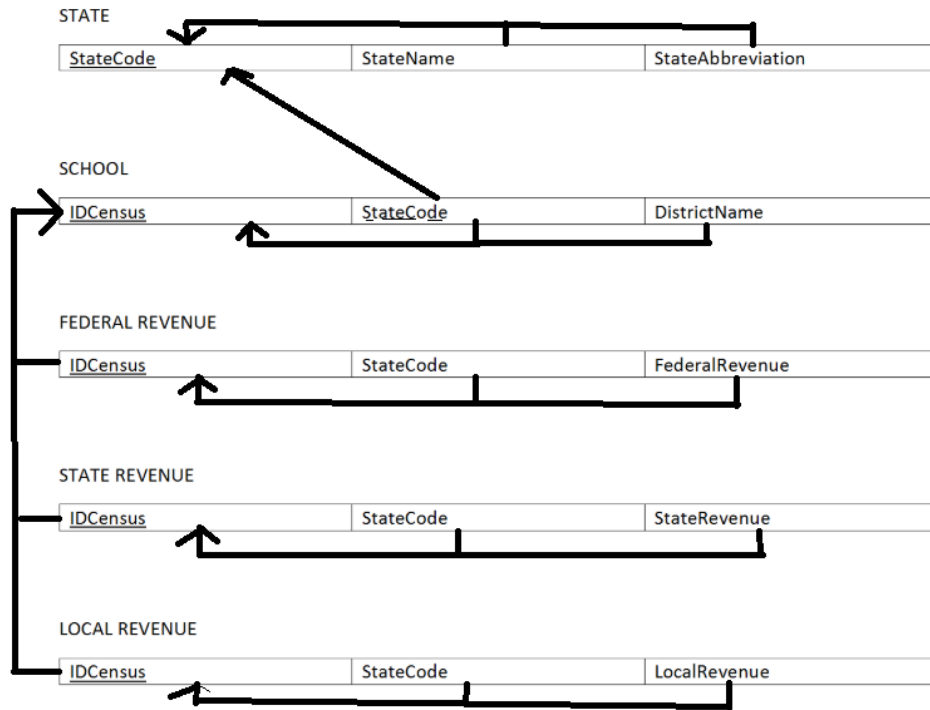
User Defined Reports

Columns Data Model Constraints Grants Statistics Triggers Flashback Dependencies Details Partitions Indexes SQL

	STCODE	STNAME	STABB
1	1	Alabama	AL
2	2	Alaska	AK
3	3	Arizona	AZ
4	4	Arkansas	AR
5	5	California	CA
6	6	Colorado	CO
7	7	Connecticut	CT
8	8	Delaware	DE
9	9	District of Columbia	DC
10	10	Florida	FL
11	11	Georgia	GA
12	12	Hawaii	HI
13	13	Idaho	ID
14	14	Illinois	IL
15	15	Indiana	IN
16	16	Iowa	IA
17	17	Kansas	KS
18	18	Kentucky	KY
19	19	Louisiana	LA
20	20	Maine	ME
21	21	Maryland	MD
22	22	Massachusetts	MA
23	23	Michigan	MI
24	24	Minnesota	MN
25	25	Mississippi	MS
26	26	Missouri	MO
27	27	Montana	MT
28	28	Nebraska	NE
29	29	Nevada	NV
30	30	New Hampshire	NH
31	31	New Jersey	NJ
32	32	New Mexico	NM
33	33	New York	NY
34	34	North Carolina	NC
35	35	North Dakota	ND
36	36	Ohio	OH
37	37	Oklahoma	OK
38	38	Oregon	OR
39	39	Pennsylvania	PA
40	40	Rhode Island	RI
41	41	South Carolina	SC

**Step 9:** ERD and relation of state, school, fedrev, strev, locrev tables





State Code in school, idcensus in fedrev, strev, and loc rev are all foreign keys.

**Step 24:** Answer to question

I think this is an example of in-data processing although it's usually done for large databases. It makes it more accessible and relevant for analysis since we are using a type of data that can be accessible through different systems.

## Step 26: Screenshot of tables and views

The screenshot displays the Oracle SQL Developer interface. On the left, the 'Connections' pane shows a tree view of the database schema for 'Final Project Daisy'. The 'Tables (Filtered)' section is expanded, listing various tables including FEDREV\_T, IDCENSUS, STCODE, FED\_REV, LOCREV\_T, IDCENSUS, STCODE, LOC\_REV, MFSUR\_T, STCODE, MAX\_FED\_REV, MAX\_ST\_REV, MAX\_LOC\_REV, SCHOOL\_FINANCE\_2010\_T, STCODE, IDCENSUS, SO\_NAME, CONJUM, CSA, CBSA, SCHLEV, NCESID, YRDATA, V33, TOTALREV, C14, C15, C16, C17, C18, C19, B11, C20, C25, C36, B10, B12, B13, C01, C04, C05, C06, C07, C08, and C09.

The main workspace shows a SQL script in the 'Query Builder' tab. The script includes several steps for creating and modifying tables and constraints:

```
a09 + a11 + a13 + a15 + a20 + a40 + u11 + u22 + u30 + u50 +  
from School_Finance_2010_t;  
  
ttitle '***** Step 7D *****' skip 2  
/*create school table*/  
Create table School_t as  
Select idcensus, stcode, ad_name  
from School_Finance_2010_t;  
  
ttitle '***** Step 8A *****' skip 2  
/*add primary key to state table*/  
ALTER TABLE State_t  
ADD CONSTRAINT State_PK PRIMARY KEY (stcode);  
  
ttitle '***** Step 8B *****' skip 2  
/*add primary key to fedrev, strev, locrev table*/  
ALTER TABLE Fedrev_t  
ADD CONSTRAINT Fedrev_PK PRIMARY KEY (idcensus);  
  
ALTER TABLE Strev_t  
ADD CONSTRAINT Strev_PK PRIMARY KEY (idcensus);  
  
ALTER TABLE Locrev_t  
ADD CONSTRAINT Locrev_PK PRIMARY KEY (idcensus);  
  
ALTER TABLE School_t  
ADD CONSTRAINT School_PK PRIMARY KEY (idcensus);  
  
ttitle '***** Step 8C *****' skip 2  
/*add foreign key to fedrev, strev, locrev table*/  
ALTER TABLE Fedrev_t  
add constraint Fedrev_FK foreign KEY (idcensus)  
references School_t (idcensus);  
  
ALTER TABLE Strev_t  
add constraint Strev_FK foreign KEY (idcensus)
```

The bottom pane shows the 'Script Output' tab with an error message:

```
ORA-01652: unable to extend temp segment by 128 in tablespace TEMP  
01652. 00000 - "unable to extend temp segment by %s in tablespace %s"  
*Cause: Failed to allocate an extent of the required number of blocks for  
a temporary segment in the tablespace indicated.  
*Action: Use ALTER TABLESPACE ADD DATAFILE statement to add one or more  
files to the tablespace indicated.
```

Oracle SQL Developer

File Edit View Navigate Run Team Tools Window Help

Connections

- WS1
- SCHOOL\_FINANCE\_2015\_T
- STATE
- IDCENSUS
- NAME
- CONUM
- CSA
- CBSA
- SCHLEV
- NCESSD
- YRDATA
- V33
- TOTALREV
- C14
- C15
- C16
- C17
- C19
- B11
- C20
- C25
- C36
- B10
- B12
- B13
- C01
- C04
- C05
- C06
- C07
- C08
- C09
- C10
- C11
- C12
- C13
- C24
- C35
- C38
- C39
- T02
- T06
- T09
- T15
- T40
- T99
- D11
- D23
- A02

Worksheet

```
a09 + a11 + a13 + a15 + a20 + a40 + u11 + u22 + u30 + u50 +
from School_Finance_2010_t;

title ***** Step 7D ***** skip 2
/*create school table*/
Create table School_t as
Select idcensus, stcode, sd_name
from School_Finance_2010_t;

title ***** Step 8A ***** skip 2
/*add primary key to state table*/
ALTER TABLE State_t
ADD CONSTRAINT State_PK PRIMARY KEY (stcode);

title ***** Step 8B ***** skip 2
/*add primary key to fedrev, strev, locrev table*/
ALTER TABLE Fedrev_t
ADD CONSTRAINT Fedrev_PK PRIMARY KEY (idcensus);

ALTER TABLE Strev_t
ADD CONSTRAINT Strev_PK PRIMARY KEY (idcensus);

ALTER TABLE Locrev_t
ADD CONSTRAINT Locrev_PK PRIMARY KEY (idcensus);

ALTER TABLE School_t
ADD CONSTRAINT School_PK PRIMARY KEY (idcensus);

title ***** Step 8C ***** skip 2
/*add foreign key to fedrev, strev, locrev table*/
ALTER TABLE Fedrev_t
add constraint Fedrev_FK foreign KEY (idcensus)
references School_t (idcensus);

ALTER TABLE Strev_t
add constraint Strev_FK foreign KEY (idcensus)
```

Script Output x Query Result x

SQL | Executing:Select \* from fsl\_contribution\_v where fsl\_pont>3order by fs...

ORA-01652: unable to extend temp segment by 128 in tablespace TEN@  
01652.00000 - "unable to extend temp segment by %s in tablespace %s"  
\*Cause: Failed to allocate an extent of the required number of blocks for  
a temporary segment in the tablespace indicated.  
\*Action: Use ALTER TABLESPACE ADD DATAFILE statement to add one or more  
files to the tablespace indicated.

Reports

Oracle SQL Developer

File Edit View Navigate Run Team Tools Window Help

Connections

- W31
- W51
- SCHOOL\_T
  - IDCENSUS
  - STCODE
  - SD\_NAME
- STATE\_T
  - STCODE
  - STNAME
  - STAB8
- STREV\_T
  - IDCENSUS
  - STCODE
  - ST\_REV
- Views
  - FED\_CONTRIBUTION\_V
    - IDCENSUS
    - STCODE
    - STNAME
    - SD\_NAME
    - FED\_PONT
  - FSL\_CONTRIBUTION\_V
    - IDCENSUS
    - STCODE
    - SD\_NAME
    - FSL\_PONT
  - LOC\_CONTRIBUTION\_V
    - IDCENSUS
    - STCODE
    - STNAME
    - SD\_NAME
    - LOC\_PONT
  - MFR\_V
    - STCODE
    - MAX\_FED\_REV
  - MLR\_V
    - STCODE
    - MAX\_LOC\_REV
  - MSR\_V
    - STCODE
    - MAX\_ST\_REV
  - SD#\_V
    - SD#
    - STCODE
  - ST\_CONTRIBUTION\_V
    - IDCENSUS
    - STCODE
    - STNAME
    - SD\_NAME

Worksheet

Query Builder

```
a09 + a11 + a13 + a15 + a20 + a40 + u11 + u22 + u30 + u50 +  
from School_Finance_2010_t;  
  
title ***** Step 7D ***** skip 2  
/*create school table*/  
Create table School_t as  
Select idcensus, stcode, sd_name  
from School_Finance_2010_t;  
  
title ***** Step 8A ***** skip 2  
/*add primary key to state table*/  
ALTER TABLE State_t  
ADD CONSTRAINT State_PK PRIMARY KEY (stcode);  
  
title ***** Step 8B ***** skip 2  
/*add primary key to fedrev, strev, locrev table*/  
ALTER TABLE Fedrev_t  
ADD CONSTRAINT Fedrev_PK PRIMARY KEY (idcensus);  
  
ALTER TABLE Strev_t  
ADD CONSTRAINT Strev_PK PRIMARY KEY (idcensus);  
  
ALTER TABLE Locrev_t  
ADD CONSTRAINT Locrev_PK PRIMARY KEY (idcensus);  
  
ALTER TABLE School_t  
ADD CONSTRAINT School_PK PRIMARY KEY (idcensus);  
  
title ***** Step 8C ***** skip 2  
/*add foreign key to fedrev, strev, locrev table*/  
ALTER TABLE Fedrev_t  
add constraint Fedrev_FK foreign KEY (idcensus)  
references School_t (idcensus);  
  
ALTER TABLE Strev_t  
add constraint Strev_FK foreign KEY (idcensus)
```

Script Output

Query Result

SQL | Executing: Select \* from fsl\_contribution\_v where fsl\_pont > 3 order by fs...

ORA-01652: unable to extend temp segment by 128 in tablespace TEMP  
01652. 00000 - "unable to extend temp segment by %s in tablespace %s"  
Cause: Failed to allocate an extent of the required number of blocks for  
a temporary segment in the tablespace indicated.  
Action: Use ALTER TABLESPACE ADD DATAFILE statement to add one or more  
files to the tablespace indicated.

Oracle SQL Developer

File Edit View Navigate Run Team Tools Window Help

Connections

- STAB8
- STREV\_T
- IDCENSUS
- STCODE
- ST\_REV
- FED\_CONTRIBUTION\_V
  - IDCENSUS
  - STCODE
  - STNAME
  - SD\_NAME
  - FED\_PONT
- FSL\_CONTRIBUTION\_V
  - IDCENSUS
  - STCODE
  - SD\_NAME
  - FSL\_PONT
- LOC\_CONTRIBUTION\_V
  - IDCENSUS
  - STCODE
  - STNAME
  - SD\_NAME
  - LOC\_PONT
- MFR\_V
  - STCODE
  - MAX\_FED\_REV
- MLR\_V
  - STCODE
  - MAX\_LOC\_REV
- MSR\_V
  - STCODE
  - MAX\_ST\_REV
- SD#\_V
  - SD#
  - STCODE
- ST\_CONTRIBUTION\_V
  - IDCENSUS
  - STCODE
  - STNAME
  - SD\_NAME
  - ST\_PONT
- TOTAL\_REV\_V
  - IDCENSUS
  - STCODE
  - TFEDREV
  - TSTREV
  - TLOCREV

Indexes

Reports

Worksheet Query Builder

```
a09 + a11 + a13 + a15 + a20 + a40 + u11 + u22 + u30 + u50 +
from School_Finance_2010_t;

ttitle '***** Step 7D *****' skip 2
/*create school table*/
Create table School_t as
Select idcensus, stcode, sd_name
from School_Finance_2010_t;

ttitle '***** Step 8A *****' skip 2
/*add primary key to state table*/
ALTER TABLE State_t
ADD CONSTRAINT State_FK PRIMARY KEY (stcode);

ttitle '***** Step 8B *****' skip 2
/*add primary key to fedrev, strev, locrev table*/
ALTER TABLE Fedrev_t
ADD CONSTRAINT Fedrev_FK PRIMARY KEY (idcensus);

ALTER TABLE Strev_t
ADD CONSTRAINT Strev_FK PRIMARY KEY (idcensus);

ALTER TABLE Locrev_t
ADD CONSTRAINT Locrev_FK PRIMARY KEY (idcensus);

ALTER TABLE School_t
ADD CONSTRAINT School_FK PRIMARY KEY (idcensus);

ttitle '***** Step 8C *****' skip 2
/*add foreign key to fedrev, strev, locrev table*/
ALTER TABLE Fedrev_t
add constraint Fedrev_FK foreign KEY (idcensus)
references School_t (idcensus);

ALTER TABLE Strev_t
add constraint Strev_FK foreign KEY (idcensus)
```

Script Output x Query Result x

SQL | Executing: Select \* from fsl\_contribution\_v where fsl\_pont > 3 order by fs...

ORA-01652: unable to extend temp segment by 128 in tablespace TEMP  
01652. 00000 - "unable to extend temp segment by %s in tablespace %s"  
\*Cause: Failed to allocate an extent of the required number of blocks for  
a temporary segment in the tablespace indicated.  
\*Action: Use ALTER TABLESPACE ADD DATAFILE statement to add one or more  
files to the tablespace indicated.