```
SQL> set feedback on
SQL> set linesize 300
SQL> set pagesize 500
SQL>
SQL> /* (1)
               First, the script finds the total number of data blocks occupied by the relational
tables ORDERS and LINEITEM. */
SQL> ANALYZE TABLE ORDERS COMPUTE STATISTICS;
Table analyzed.
SQL> ANALYZE TABLE LINEITEM COMPUTE STATISTICS;
Table analyzed.
SQL>
SQL> SELECT SEGMENT_NAME, BYTES, BLOCKS
 2 FROM USER SEGMENTS
 3 WHERE SEGMENT NAME IN ('ORDERS', 'LINEITEM');
SEGMENT NAME
BYTES BLOCKS
ITNFTTFM
297795584
               36352
ORDERS
59768832
               7296
2 rows selected.
SQL>
SQL>
SQL > /* (2)
               Next the script creates a new tablespace to keep the relational tables ORDERS1992
and LINEITEM1992.
           The size of a new tablespaces must be carfully adjusted to the size of both relational
SOL >
tables ORDERS1992
           and LINEITEM1992.
SQL>
*/
SQL> connect system/oracle
Connected.
SQL>
SQL> CREATE TABLESPACE TBS1992
     EXTENT MANAGEMENT LOCAL UNIFORM SIZE 256K
     SEGMENT SPACE MANAGEMENT AUTO
  3
 4
     BLOCKSIZE 8K
  5
     DATAFILE '/opt/oracle/oradata/DB/tbs128.dbf'
       SIZE 25M AUTOEXTEND OFF;
Tablespace created.
SQL> ALTER USER tpchr QUOTA 300M ON TBS1992;
User altered.
SQL>
SQL> connect tpchr/oracle
Connected.
SQL>
                Next, the script creates the new relational tables ORDERS1992 and LINEITEM1992 to
SQL > /* (3)
store information about
           orders submitted in 1992. Note, that the new relational tables must have the
appropriate consistency
            constraints enforced. The tables must be stored in the new tablespace created in the
previous step.
SQL>
        Note, that in step (2) and step (3) you must take under the consideration an objective to
SQL>
```

```
minimize storage
            allocation for the new tables and a new tablespace.
SQL>
*/
SQL>
SQL> CREATE TABLE ORDERS1992(
      O_ORDERKEY
                        NUMBER(12)
                                         NOT NULL,
  3
      O_CUSTKEY NUMBER(12)
                                 NOT NULL,
  4
      O_TOTALPRICE
                        NUMBER(12,2)
                                         NOT NULL,
  5
      O_ORDERDATE
                        DATE
                                         NOT NULL,
        CONSTRAINT ORDERS1992_PKEY PRIMARY KEY (O_ORDERKEY),
  6
        CONSTRAINT ORDERS1992_CHECK1 CHECK( O_TOTALPRICE >= 0) ) PCTFREE 0 TABLESPACE TBS1992;
Table created.
SQL>
SQL> CREATE TABLE LINEITEM1992(
     L ORDERKEY
                        NUMBER(12)
                                         NOT NULL,
  3
     L LINENUMBER
                        NUMBER(12)
                                         NOT NULL,
  4
      L_QUANTITY
                        NUMBER(12,2)
                                         NOT NULL,
  5
      L EXTENDEDPRICE NUMBER(12,2)
                                         NOT NULL,
  6
      L DISCOUNT
                        NUMBER(12,2)
                                         NOT NULL,
  7
      L_TAX
                        NUMBER(12,2)
                                         NOT NULL,
  8
      L SHIPDATE
                        DATE
                                         NOT NULL,
  9
        CONSTRAINT LINEITEM1992_PKEY PRIMARY KEY (L_ORDERKEY, L_LINENUMBER),
 10
        CONSTRAINT LINEITEM1992 FKEY1 FOREIGN KEY (L ORDERKEY)
 11
                REFERENCES ORDERS(O_ORDERKEY),
        CONSTRAINT LINEITEM1992_CHECK1 CHECK (L_QUANTITY >= 0),
 12
 13
        CONSTRAINT LINEITEM1992_CHECK2 CHECK (L_EXTENDEDPRICE >= 0),
 14
        CONSTRAINT LINEITEM1992_CHECK3 CHECK (L_TAX >= 0),
        CONSTRAINT LINEITEM1992_CHECK4 CHECK (L_DISCOUNT BETWEEN 0.00 AND 1.00) ) PCTFREE 0
 15
TABLESPACE TBS1992;
Table created.
SQL>
SQL > /* (4)
                Next, copy information about the orders submitted in 1992 to the new relational
tables.
SOL>
SQL> INSERT INTO ORDERS1992 (SELECT O_ORDERKEY,O_CUSTKEY,O_TOTALPRICE,O_ORDERDATE
  2
                              FROM ORDERS
  3
                              WHERE TO_CHAR(O_ORDERDATE ,'YYYYY') = '1992');
68291 rows created.
SQL> INSERT INTO LINEITEM1992 (SELECT
L ORDERKEY, L LINENUMBER, L QUANTITY, L EXTENDEDPRICE, L DISCOUNT, L TAX, L SHIPDATE
                                FROM LINEITEM
  3
                                WHERE L ORDERKEY IN (SELECT O ORDERKEY
                                                     FROM ORDERS1992) );
  4
273313 rows created.
SOL>
SOL> /* (5)
                Next, whenever it is possible the script should reduce storage allocation for a
tablespace used and
SOL>
            the relational tables created earlier.
*/
SOL>
SOL> ALTER TABLE LINEITEM1992 DEALLOCATE UNUSED;
Table altered.
SQL> ALTER TABLE ORDERS1992 DEALLOCATE UNUSED;
Table altered.
SOL>
SQL > /* (6)
                Finally, the script finds the total number of data blocks occupied by the
```

```
relational tables ORDERS1992 and
SQL>
         LINEITEM1992.
*/
SQL>
SQL> ANALYZE TABLE ORDERS1992 COMPUTE STATISTICS;
Table analyzed.
SQL> ANALYZE TABLE LINEITEM1992 COMPUTE STATISTICS;
Table analyzed.
SQL>
SQL> SELECT SEGMENT_NAME, BYTES, BLOCKS
 2 FROM USER_SEGMENTS
 3 WHERE SEGMENT_NAME IN ('ORDERS1992', 'LINEITEM1992');
SEGMENT_NAME
BYTES BLOCKS
______
______
LINEITEM1992
10485760
           1280
ORDERS1992
2359296
           288
2 rows selected.
SQL>
SQL> spool off
```