

```

SQL>
SQL> set linesize 100
SQL> set pagesize 200
SQL> set echo on
SQL> set feedback on
SQL>
SQL> /* Implement SQL script solution1.sql that performs the following actions.
*/
SQL>
SQL> /* (1) First the script connects to a database server as a user SYSTEM and list the following
columns from
SQL>     a dynamic performance view V$INSTANCE:
SQL>     INSTANCE_NAME,
SQL>     HOST_NAME,
SQL>     STARTUP_TIME,
SQL>     DATABASE_STATUS.
SQL>
SQL>     To connect to a database server within SQL script as a user xyz007 with a password
password insert
SQL>     the following line into the script.
SQL>
SQL>     connect xyz007/password
*/
SQL>
SQL> connect SYSTEM/oracle
Connected.
SQL>
SQL> column HOST_NAME format A30
SQL>
SQL> SELECT INSTANCE_NAME,
       2     HOST_NAME,
       3     STARTUP_TIME,
       4     DATABASE_STATUS
       5 FROM V$INSTANCE;

```

INSTANCE_NAME	HOST_NAME	STARTUP_T	DATABASE_STATUS
db	localhost.localdomain	26-JUN-22	ACTIVE

```

1 row selected.

SQL>
SQL> /* (2) Next, the script connects as a user tpchr and processes ANALYZE TABLE statement to
load into
SQL>     a data dictionary statistical information related to the relational tables and indexes
implementing
SQL>     a sample database tpchr created earlier
*/
SQL>
SQL> connect tpchr/oracle
Connected.
SQL>
SQL> ANALYZE TABLE NATION COMPUTE STATISTICS;

Table analyzed.

SQL> ANALYZE TABLE REGION COMPUTE STATISTICS;

Table analyzed.

SQL> ANALYZE TABLE PART COMPUTE STATISTICS;

Table analyzed.

SQL> ANALYZE TABLE SUPPLIER COMPUTE STATISTICS;

Table analyzed.

SQL> ANALYZE TABLE PARTSUPP COMPUTE STATISTICS;

```

Table analyzed.

SQL> ANALYZE TABLE CUSTOMER COMPUTE STATISTICS;

Table analyzed.

SQL> ANALYZE TABLE ORDERS COMPUTE STATISTICS;

Table analyzed.

SQL> ANALYZE TABLE LINEITEM COMPUTE STATISTICS;

Table analyzed.

```
SQL>
SQL> /* (3) Next, the script connects as a user sys.
*/
SQL>
SQL> connect sys/oracle as sysdba
Connected.
SQL>
SQL> /* (3) Next, while still connected as a user sys the script retrieves and lists the following
SQL>      information from a data dictionary.
SQL>      (i) The current timestamp obtained from an application of a function systimestamp.
*/
SQL>
SQL> SELECT systimestamp
       2  FROM DUAL;
```

SYSTIMESTAMP

```
-----
26-JUN-22 02.24.02.684229000 AM -04:00
```

1 row selected.

```
SQL>
SQL> /* (ii) The names of relational tables, that belong to tpchr sample database together with
the total
SQL>      number of rows, total number of data blocks, total number of extents and the total
number of
SQL>      bytes occupied by each table. Display your results in the following format.
SQL>      table-name total-rows total-blocks total-extents total-bytes
*/
SQL>
SQL> column SEGMENT_NAME format A30
SQL>
SQL> SELECT DBA_SEGMENTS.SEGMENT_NAME, DBA_TABLES.NUM_ROWS, DBA_SEGMENTS.BLOCKS,
DBA_SEGMENTS.EXTENTS, DBA_SEGMENTS.BYTES
       2  FROM DBA_SEGMENTS JOIN DBA_TABLES
       3              ON DBA_SEGMENTS.SEGMENT_NAME = DBA_TABLES.TABLE_NAME
       4  WHERE DBA_TABLES.TABLE_NAME IN ('NATION','REGION',
'PART','SUPPLIER','PARTSUPP','CUSTOMER','ORDERS','LINEITEM') AND
       5          UPPER(DBA_TABLES.OWNER) = 'TPCHR';
```

SEGMENT_NAME	NUM_ROWS	BLOCKS	EXTENTS	BYTES
REGION	5	32	1	262144
NATION	25	32	1	262144
PART	60000	1088	34	8912896
SUPPLIER	3000	96	3	786432
PARTSUPP	240000	5024	157	41156608
CUSTOMER	45000	1056	33	8650752
ORDERS	450000	7296	228	59768832
LINEITEM	1800093	32576	1018	266862592

8 rows selected.

```
SQL>
SQL> /* (iii) The names of indexes on primary keys automatically created by the system when
```

processing

SQL> CREATE INDEX statements together with total number of data blocks, total number of extents and

SQL> the total number of bytes occupied by each index. Display your results in the following format.

SQL> index-name total-blocks total-extents total-bytes

*/

SQL>

SQL> SELECT DBA_SEGMENTS.SEGMENT_NAME, DBA_SEGMENTS.BLOCKS, DBA_SEGMENTS.EXTENTS,
DBA_SEGMENTS.BYTES

2 FROM DBA_SEGMENTS

3 WHERE DBA_SEGMENTS.SEGMENT_NAME IN

('REGION_PKEY', 'NATION_PKEY', 'PART_PKEY', 'SUPPLIER_PKEY', 'PARTSUPP_PKEY', 'CUSTOMER_PKEY', 'ORDERS_
PKEY', 'LINEITEM_PKEY') AND

4 UPPER(DBA_SEGMENTS.OWNER) = 'TPCHR';

SEGMENT_NAME	BLOCKS	EXTENTS	BYTES
REGION_PKEY	32	1	262144
NATION_PKEY	32	1	262144
PART_PKEY	160	5	1310720
SUPPLIER_PKEY	32	1	262144
PARTSUPP_PKEY	896	28	7340032
CUSTOMER_PKEY	128	4	1048576
ORDERS_PKEY	928	29	7602176
LINEITEM_PKEY	4256	133	34865152

8 rows selected.

SQL>

SQL> spool off