the default. It can only be specified explicitly in a CREATE TABLE or ALTER TABLE statement. Attempting to set the innodb_default_row_format variable to COMPRESSED returns an error:

```
mysql> SET GLOBAL innodb_default_row_format=COMPRESSED;
ERROR 1231 (42000): Variable 'innodb_default_row_format'
can't be set to the value of 'COMPRESSED'
```

Newly created tables use the row format defined by the innodb_default_row_format variable when a ROW_FORMAT option is not specified explicitly, or when ROW_FORMAT=DEFAULT is used. For example, the following CREATE TABLE statements use the row format defined by the innodb_default_row_format variable.

```
CREATE TABLE t1 (c1 INT);
```

```
CREATE TABLE t2 (c1 INT) ROW_FORMAT=DEFAULT;
```

When a ROW_FORMAT option is not specified explicitly, or when ROW_FORMAT=DEFAULT is used, an operation that rebuilds a table silently changes the row format of the table to the format defined by the innodb_default_row_format variable.

Table-rebuilding operations include ALTER TABLE operations that use ALGORITHM=COPY or ALGORITHM=INPLACE where table rebuilding is required. See Section 15.12.1, "Online DDL Operations" for more information. OPTIMIZE TABLE is also a table-rebuilding operation.

The following example demonstrates a table-rebuilding operation that silently changes the row format of a table created without an explicitly defined row format.

```
mysql> SELECT @@innodb_default_row_format;
+-----------------------------+
| @@innodb_default_row_format |
+-----------------------------+
| dynamic                     |
+-----------------------------+

mysql> CREATE TABLE t1 (c1 INT);

mysql> SELECT * FROM INFORMATION_SCHEMA.INNODB_TABLES WHERE NAME LIKE 'test/t1' \G
*************************** 1. row ***************************
     TABLE_ID: 54
         NAME: test/t1
         FLAG: 33
       N_COLS: 4
        SPACE: 35
   ROW_FORMAT: Dynamic
ZIP_PAGE_SIZE: 0
   SPACE_TYPE: Single

mysql> SET GLOBAL innodb_default_row_format=COMPACT;

mysql> ALTER TABLE t1 ADD COLUMN (c2 INT);

mysql> SELECT * FROM INFORMATION_SCHEMA.INNODB_TABLES WHERE NAME LIKE 'test/t1' \G
*************************** 1. row ***************************
     TABLE_ID: 55
         NAME: test/t1
         FLAG: 1
       N_COLS: 5
        SPACE: 36
   ROW_FORMAT: Compact
ZIP_PAGE_SIZE: 0
   SPACE_TYPE: Single
```

Consider the following potential issues before changing the row format of existing tables from REDUNDANT or COMPACT to DYNAMIC.