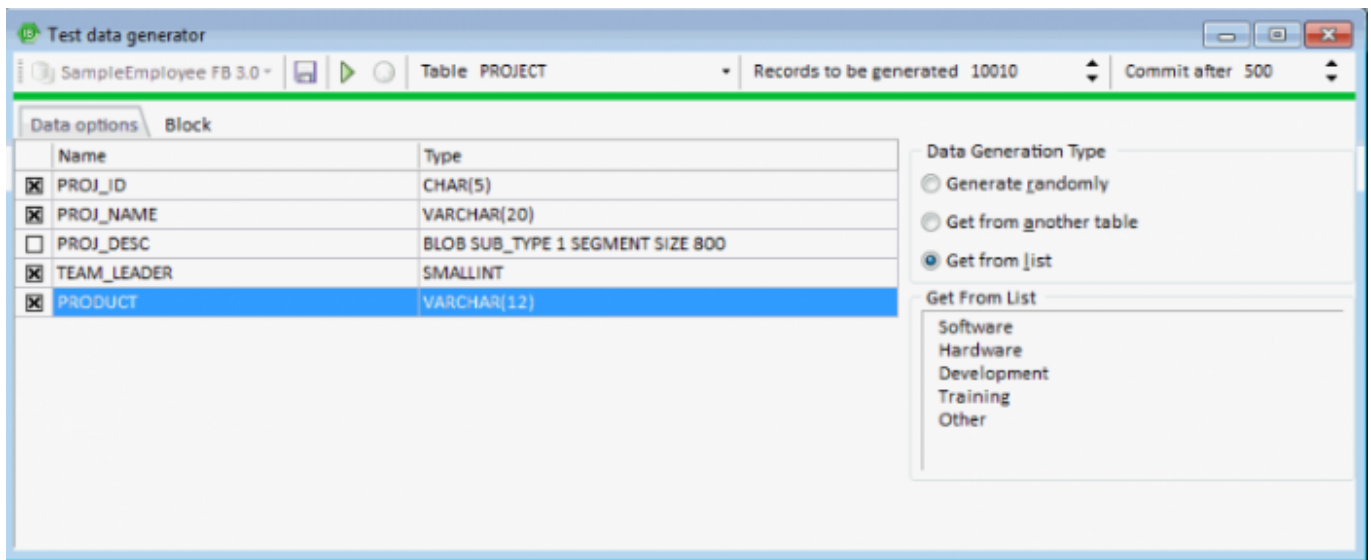


Test Data Generator

The IBEExpert *Test data* generator can be found in the [IBExpert Tools menu](#). (This feature is unfortunately not included in the [free IBEExpert Personal Edition](#).)

Data options



A database connection must already exist. Select the database for which test data is to be generated, if more than one database is connected. To generate data for a specific table, select the table, then select the number of data sets to be generated. Over 100,000 data sets are not a problem for IBEExpert here, even when working locally, although it may take a little time. Click on the individual fields and specify the contents on the right. It is possible to specify the following:

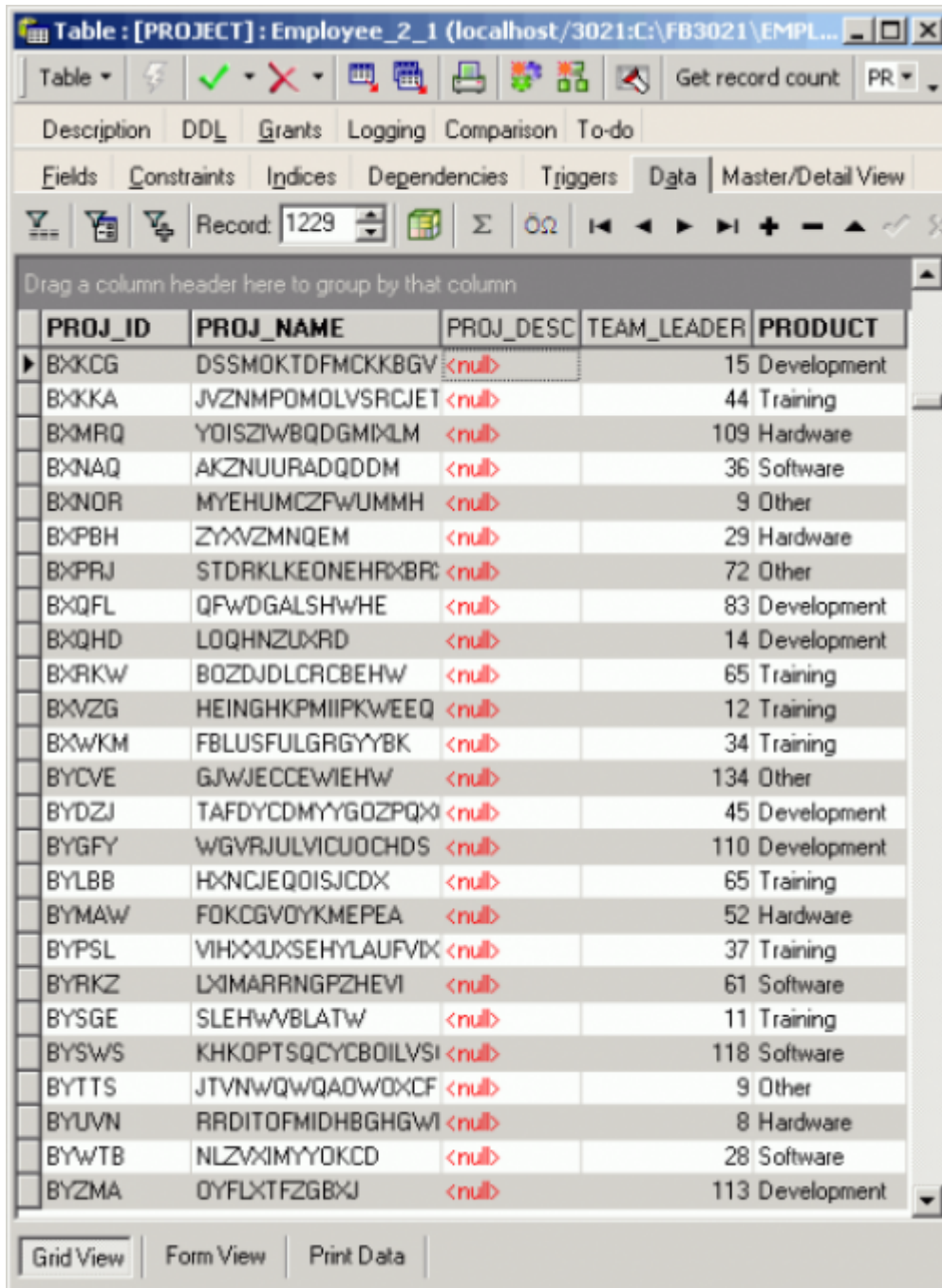
Data Generation Type: options here include:

- **Generate randomly:** User-defined [constraints](#) include the following:
 - **Integer:** the minimum and maximum value.
 - **Float:** check option *Fixed Float Number*, and user specification of number of digits and level of precision.
 - **String:** the minimum and maximum length; the range of characters within the character set which may be used for the data content.
 - **Date:** the minimum and maximum date, and a check option, whether a time slice should also be included.
- **Get from another table:** Specify table, field and number of records. This is a useful way of generating test data for a [foreign key](#) field.
- **Get from a list:** A list can be typed or pasted in the panel.
- **Autoincrement:** This option is of course only offered for integral fields, and enables the developer to specify an initial value, and the interval (step).

Initial support of DECFLOAT / NUMERIC(38) fields (Firebird 4) was added in IBEExpert version 2020.01.06.

Finally execute (green > icon or [F9]), and watch the counter generate the test data.

The data can be viewed in the [Table Editor](#) on the [Data page](#):



| PROJ_ID | PROJ_NAME | PROJ_DESC | TEAM_LEADER | PRODUCT |
|---------|--------------------|-----------|-------------|-------------|
| B>XKCG | DSSMOKTDFMCKKBGV | <null> | 15 | Development |
| B>XKA | JVZNPOMOLVSRJET | <null> | 44 | Training |
| B>XMRQ | YOISZIWBQDGMIXLM | <null> | 109 | Hardware |
| B>XNAQ | AKZNUURADQDDM | <null> | 36 | Software |
| B>XNOR | MYEHUMCFWUMMH | <null> | 9 | Other |
| B>XPBH | ZYXVZMNQEM | <null> | 29 | Hardware |
| B>XPRJ | STDRKLEONEHRXBR | <null> | 72 | Other |
| B>XQFL | QFWDGALSHWHE | <null> | 83 | Development |
| B>XQHD | LOQHNZUXRD | <null> | 14 | Development |
| B>XRKW | BOZDJDLCRCBEHW | <null> | 65 | Training |
| B>XVZG | HEINGHKPMIIPKWEEQ | <null> | 12 | Training |
| B>XWKM | FBLUSFULGRGYBK | <null> | 34 | Training |
| BYCVE | GJWJECCEWIEHW | <null> | 134 | Other |
| BYDZJ | TAFDYCDMYGOZPQX | <null> | 45 | Development |
| BYGFY | WGVJRJULVICUOCHDS | <null> | 110 | Development |
| BYLBB | HXNCJEQOISJCDX | <null> | 65 | Training |
| BYMAW | FOKCGVOYKMEPEA | <null> | 52 | Hardware |
| BYPSL | VIHXXUXSEHYLAUFVIX | <null> | 37 | Training |
| BYRKZ | LXIMARRNGPZHEVI | <null> | 61 | Software |
| BYSGE | SLEHWVBLATW | <null> | 11 | Training |
| BYSW'S | KHKOPTSQCYCBOILVSI | <null> | 118 | Software |
| BYTTS | JTVNWQWQAOWOXCF | <null> | 9 | Other |
| BYUVN | RRDITOFMIDHBGHGWI | <null> | 8 | Hardware |
| BYWTB | NLZVXIMYYOKCD | <null> | 28 | Software |
| BYZMA | OYFLXTFZGBXJ | <null> | 113 | Development |

IBEBlock

An IBEBlock is automatically created, which can be used to generate test data.

```
Test data generator
SampleEmployee FB 3.0 Table PROJECT Records to be generated 10010 Commit after 500
Data options Block
Block for generation test data
execute ibeblock
as
begin
  DB = ibec_CreateConnection( _ctInterBase,
                             'DBName="C:\Firebird 30\fb30\examples\empbuild\EMPLOYEE.FDB";
                             ClientLib="C:\Firebird 30\fb30w32\fbclient.dll";
                             User=SYSDBA; Password=masterke;
                             Names=NONE; SqlDialect=3');

  ibec_UseConnection(DB);

  lst_TEAM_LEADER = null;
  iIndex = 0;
  for select EMP_NO
    from EMPLOYEE
    into :vValue
  do
  begin
    lst_TEAM_LEADER[iIndex] = :vValue;
    iIndex = iIndex + 1;
    if (iIndex >= 20) then
      Break;
  end;

  lst_PRODUCT = null;
  iIndex = 0;
  for select PRODUCT
    from PROJECT
    into :vValue
  do
  begin
    lst_PRODUCT[iIndex] = :vValue;
    iIndex = iIndex + 1;
    if (iIndex >= 1) then
```

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