Reporting in Oracle database

How to use TrueType fonts in PL/PDF (Standard and Unicode)
V4.0.0

The PDF specification enables the use of TrueType fonts in PDF documents as embedded fonts. PL/PDF supports the use of embedded TTF fonts.

This version has new TTF packages:
- plpdf_gl: glyph definition
- plpdf_ttf_parser: TTF file parser

Usage:
1. Obtain the desired TTF file.
2. Load the PLPDF_TTF_FILE table:
    a. ID (NUMBER): unique identifier
    a. FONTFILE_NAME (VARCHAR2(255)): TTF file name with extension (.ttf)
    b. FONTFILE_DATA (BLOB): the binary TTF font
2. Generate the data necessary for the embedding: run plpdf_ttf_parser.StoreTTF procedure:
    a. P_FONT_FILE_ID: the value of the ID in PLPDF_TTF_FILE
    b. P_ENC: encoding value, use one of the supported encoding values specified in the PL/PDF documentation (see SetEncoding command). The default value is cp1252. For Unicode use utf16. The encoding is dependent on the TTF file. Please check what the necessary encoding for your font file is.
    c. P_COMMIT: execute COMMIT statement after inserting records
       The generated data is stored in the PLPDF_ADD and PLPDF_ADD_CW tables. The ID is taken from the PLPDF_TTF_S sequence. The ID can be used to reference the font during the generation of the PDF document.

Use TTF while generating a PDF document

The create data can now be used while generating a PDF document. Here is how to use the fonts in the PDF generator:
- Declare a Plpdf_Type.t_addfont type variable, e.g. l_ttf Plpdf_Type.t_addfont;
- Retrieve the font using the Plpdf_TTF.GetTTF procedure. The parameter is the ID field of the PLPDF_ADD table, e.g. l_ttf := Plpdf_Ttf.GetTTF(21);
- Add the TTF font to the PDF document: run the Plpdf.addTTF procedure, where the parameters are:
    o P_FAMILY: the name that can be used to reference the font in the SetPrintFont procedure.
    o P_STYLE: the font style (some TTF fonts only contain the regular style):
        - NULL: regular
        - B: Bold
        - I: Italic
        - BI: Bold, Italic
    o P_DATA: data needed to embed the font. Use the result of the Plpdf_TTF.GetTTF function.
    Example: Plpdf.addTTF('ArialMT', NULL, l_ttf);
- After this the font can be referenced by the SetPrintFont procedure using the P_FAMILY.

Warning: using TrueType fonts in conjunction with PDF file Protection may significantly decrease the speed of PDF generation, because the embedded file is also encrypted using the RC4 encryption.