PL_SQL   Oracle   PDF

PL/SQL
                              XML
declare l_count integer. begin dbms_output.put_line(). -- generate
matrix of parts by country for part in (0select id,description from
parts order by description) loop dbms_output.put_line().
dbms_output.put_line(||part.description||). for country in (0select
code from countries order by name) loop 0select sum(cnt) into
l_count from orders where part_id = part.id and cc = country.code.
dbms_output.put_line(||nvl(l_count,0)||). end loop.
dbms_output.put_line(). end loop. dbms_output.put_line(). end.
                    parts   countries
                              PL/SQL

FOR
SQL

                              PL/SQL
                         declare type
part_tbl_type is table of parts%rowtype index by binary_integer.
part_tbl part_tbl_type. -- type country_tbl_type is table of
countries%rowtype index by binary_integer. country_tbl
country_tbl_type. -- type cell_rec is record (part_id
orders.part_id%type, cc orders.cc%type, cnt orders.cnt%type). type
cell_tbl_type is table of cell_rec index by binary_integer. cell_tbl
cell_tbl_type. -- i pls_integer. begin -- build rows for row in (0select

* from parts order by description) loop part_tbl(part_tbl.count 1) := row. end loop. -- build columns for col in (0select * from countries order by name) loop country_tbl(country_tbl.count 1) := col. end loop. -- build cells for cell in (0select part_id,cc,sum(cnt) from orders group by part_id,cc) loop cell_tbl(cell_tbl.count 1) := cell. end loop. dbms_output.put_line(). -- generate matrix of parts by country i := cell_tbl.first. for row in part_tbl.first .. part_tbl.last loop dbms_output.put_line().
dbms_output.put_line(||part_tbl(row).description||). for col in country_tbl.first .. country_tbl.last loop if cell_tbl(i).part_id = part_tbl(row).id and cell_tbl(i).cc = country_tbl(col).code 100Test