pattern
- 🔑 id: INTEGER
- language: INTEGER
- recognizer: TEXT

language
- 🔑 id: INTEGER
- desc: TEXT
- short: TEXT

recommendation_pattern
- id_recommendation: INTEGER
- id_pattern: INTEGER

architecture
- 🔑 id: INTEGER
- desc: TEXT
- short: TEXT

recommendation_architecture
- id_recommendation: INTEGER
- id_architecture: INTEGER

category
- 🔑 id: INTEGER
- desc: TEXT
- short: TEXT

recommendation_category
- id_recommendation: INTEGER
- id_category: INTEGER
- weight: REAL

recommendation
- 🔑 id: INTEGER
- desc: CHAR(1024)
- reason: CHAR(1024)
- example: CHAR(1024)
- loop_depth: INTEGER

recommendation_function
- id_recommendation: INTEGER
- id_function: INTEGER
- weight: REAL

function
- 🔑 id: INTEGER
- desc: TEXT
- statement: TEXT

metrics
- 🔑 id: INTEGER
- code_filename: CHAR(1024)
- code_line_number: INTEGER
- code_type: CHAR(128)
- code_extra_info: CHAR(1024)
- perfexpert_overall: FLOAT
- perfexpert_data_accesses_overall: FLOAT
- perfexpert_data_accesses_L1d_hits: FLOAT
- perfexpert_data_accesses_L2d_hits: FLOAT
- perfexpert_data_accesses_L2d_misses: FLOAT
- perfexpert_data_accesses_L3d_misses: FLOAT
- perfexpert_ratio_floating_point: FLOAT
- perfexpert_ratio_data_accesses: FLOAT
- perfexpert_instruction_accesses_overall: FLOAT
- perfexpert_instruction_accesses_L1i_hits: FLOAT
- perfexpert_instruction_accesses_L2i_hits: FLOAT
- perfexpert_instruction_accesses_L2i_misses: FLOAT
- perfexpert_instruction_TLB_overall: FLOAT
- perfexpert_data_TLB_overall: FLOAT
- perfexpert_branch_instructions_overall: FLOAT
- perfexpert_branch_instructions_correctly_predicted: FLOAT
- perfexpert_branch_instructions_mispredicted: FLOAT
- perfexpert_floating_point_instr_overall: FLOAT
- perfexpert_floating_point_instr_fast_FP_instr: FLOAT
- perfexpert_floating_point_instr_slow_FP_instr: FLOAT
- perfexpert_percent_GFLOPS____max__overall: FLOAT
- perfexpert_percent_GFLOPS____max__packed: FLOAT
- perfexpert_percent_GFLOPS____max__scalar: FLOAT
- papi_PAPI_TOT_INS: INTEGER
- papi_PAPI_TOT_CYC: INTEGER
- papi_PAPI_FP_INS: INTEGER
- papi_PAPI_L1_ICA: INTEGER
- papi_PAPI_L2_ICA: INTEGER
- papi_PAPI_L1_DCA: INTEGER
- papi_PAPI_L2_DCA: INTEGER
- papi_PAPI_L2_ICM: INTEGER
- papi_PAPI_L2_TCM: INTEGER
- papi_PAPI_L3_TCM: INTEGER
- papi_PAPI_TLB_IM: INTEGER
- papi_PAPI_TLB_DM: INTEGER
- papi_PAPI_BR_INS: INTEGER
- papi_PAPI_BR_MSP: INTEGER
- papi_PAPI_LD_INS: INTEGER
- papi_SSEX_UOPS_RETIRED_PACKED_SINGLE: INTEGER
- papi_SSEX_UOPS_RETIRED_PACKED_DOUBLE: INTEGER
- papi_SSEX_UOPS_RETIRED_SCALAR_DOUBLE_SCALAR_SINGLE: INTEGER
- papi_FP_COMP_OPS_EXE_SSE_DOUBLE_PRECISION_SSE_FP_SSE_FP_PACKED_SSE_FP_SCALAR_SSE_SINGLE_PRECISION_X87: INTEGER
- papi_ARITH_CYCLES_DIV_BUSY: INTEGER
- hound_CPU_freq: FLOAT
- hound_CPI_threshold: FLOAT
- hound_L1_ilat: FLOAT
- hound_L1_dlat: FLOAT
- hound_L2_lat: FLOAT
- hound_L3_lat: FLOAT
- hound_mem_lat: FLOAT
- hound_BR_lat: FLOAT
- hound_BR_miss_lat: FLOAT
- hound_FP_slow_lat: FLOAT
- hound_FP_lat: FLOAT
- hound_TLB_lat: FLOAT