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/*
    Unit of measurement
*/
create table umcodes(
    umcode          varchar(4) not null,
    umname          varchar(16),
    umdesc          varchar(48),
    umoptx          varchar(8),
    constraint pk_umcodes primary key(umcode)
);

/*
    Unit of measurement conversion
*/
create table umconv(
    basumcode       varchar(4) not null,
    altumcode       varchar(4) not null,
    umcvtfact       numeric(15, 4),
    umcvtmeth       integer default 0,
);

/*
    Feature list
    -
    ftgrp:
        0 - X Feature (umumnya digunakan sebagai size)
        1 - Y Feature (umumnya digunakan sebagai color)
*/
create table feature(
    ftname          varchar(8) not null,
    ftgrp           integer default 0,
    ftdesc          varchar(38)
    constraint pk_colfeature primary key(ftname)
);

/*
    Feature Items
    -
    fitprio - prioritas pengurutan
*/
create table featureitem(
    ftname          varchar(4) not null,
    fitname         varchar(16) not null,
    fitprio         integer default 5,
    fitdesc         varchar(38)
    constraint pk_colitem primary key(ftname, fitname)
);

create index idx_featureitem_1 on featureitem(ftname, fitprio);

/*
    Type of style
*/
create table styletypes(
    sttname         varchar(8) not null,
    sttdesc         varchar(48),
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constraint pk_styletypes primary key(sttname)
);

/*
List of materials/fabric
*/
create table materials(
  mtname          varchar(16) not null,
  mtdesc          varchar(48),
  constraint pk_materials primary key(mtname)
);

/*
List of style
-
stitmcr - flag untuk mengidentifikasikan item sudah dicreate
*/
create table styles(
  stname          varchar(12) not null,
  sttname          varchar(8) not null,
  stdesc          varchar(48),
  umcode          varchar(4),
  stitmcr          smallint default 0,
  constraint pk_styles primary key(stname)
);

/*
Default Laying rule
*/
create table layrule(
  lrname          varchar(12) not null,
  lrdesc          varchar(48),
  constraint pk_layrule primary key(lrname)
);

/*
Default laying rule items
*/
create table layruleitems(
  lrname          varchar(12) not null,
  minpcs          integer not null,
  minlyr          integer not null,
  constraint pk_layruleitems primary key(lrname, minpcs),
);

/*
Style connect feature
*/
create table stylefeature(
  stname          varchar(12) not null,
  ftname          varchar(8) not null,
  ftgrp           integer default 0,
  ftdesc          varchar(38),
  constraint pk_stylefeature primary key(stname, ftname)
);
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/*
    Style per feature items
*/
create table stylefeatureitems(
    stname          varchar(12) not null,
    ftname          varchar(8) not null,
    fitname         varchar(16) not null,
    fitprio         integer default 5,
    fitdesc         varchar(38),
    constraint pk_stylefeatureitems primary key(stname, ftname, fitname)
);

/*
    Material linked for style per feature items
    -
    tabel hanya tersedia/bisa diakses bila
    fitur yang dimasukkan pada tabel stylefeature
    adalah kategori Y (color).

    mtname - material consuming
    lrname - laying rule name
*/
create table stylefeatureitems_material(
    stname          varchar(12) not null,
    ftname          varchar(8) not null,
    fitname         varchar(16) not null,
    mtname          varchar(16) not null,
    mtdesc          varchar(48),
    lrname          varchar(12) not null,
    lrdesc          varchar(48),
    avgyy           numeric(14, 6),
    umcode          varchar(4),
    fballowance     numeric(12,3),
    fbalttype       integer,
    constraint pk_stylefeatureitems_material primary key(stname, ftname, fitname,
mtname)
);

/*
    Laying rule items for style per feature items
*/
create table stylefeatureitems_rule(
    stname          varchar(12) not null,
    ftname          varchar(8) not null,
    fitname         varchar(16) not null,
    mtname          varchar(16) not null,
    minpcs          integer not null,
    minlyr          integer not null,
    constraint pk_stylefeatureitems primary key(stname, ftname, fitname, mtname,
minpcs)
);

/*
    Actual items as on X + Y (Size + Color) feature
*/
create table items(
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    itmname          varchar(48) not null,
    itmdesc          varchar(48),
    stname           varchar(12),
    xftname          varchar(8) not null,
    xfitname         varchar(16) not null,
    xfitprio         integer default 5,
    yftname          varchar(8) not null,
    yfitname         varchar(16) not null,
    umcode           varchar(4),
    constraint pk_items primary key(itmname)
);

/*
   Material per items
*/
create table items_material(
    itmname          varchar(48) not null,
    mtname           varchar(16) not null,
    mtdesc           varchar(48),
    lrname           varchar(12) not null,
    lrdesc           varchar(48),
    avgyy            numeric(14, 6),
    umcode           varchar(4),
    fballowance      numeric(12,3),
    fbaltype         integer,
    constraint pk_items_material primary key(itmname, mtname)
);

/*
   Laying rule used on material per items
*/
create table items_material_rule(
    itmname          varchar(48) not null,
    mtname           varchar(16) not null,
    minpcs           integer not null,
    minlyr           integer not null,
    constraint pk_items_material_rule primary key(itmname, mtname, minpcs)
);

/*
   Actual Orders Definition
*/
create table orders(
    ordno            varchar(16) not null,
    orddesc          varchar(48),
    custno           varchar(16),
    dsnfile          varchar(48),
    dsncontent        blob(0, 1),
    maxlenlength     numeric(12,3),
    mrklength        numeric(12,3),
    mrkwidth         numeric(12,3),
    algorithm        varchar(4),
    lroperation       integer,
    lrmethord         integer,
    lrmethordcnt      integer,
    constraint pk_orders primary key(ordno)
```

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);

/*
  Actual item per order definition
*/
create table orderitems(
  ordno          varchar(16) not null,
  itmname        varchar(48) not null,
  ordqty         integer,
  umcode         varchar(4),
  dsncfile       varchar(48),
  dsnccontent     blob(0, 1),
  maxlenlength   numeric(12,3),
  mrklength       numeric(12,3),
  mrkwidth        numeric(12,3),
  algorithm       varchar(4),
  lroperation     integer,
  lrmethord       integer,
  lrmethordcnt    integer,
  constraint pk_orders primary key(ordno, itmname)
);

/*
  Actual material used for item per order definition
*/
create table orderitems_material(
  ordno          varchar(16) not null,
  itmname        varchar(48) not null,
  mtname         varchar(16) not null,
  lrname         varchar(12) not null,
  avgyy          numeric(14, 6),
  umcode         varchar(4),
  fballowance    numeric(12,3),
  fbaltype       integer,
  dsncfile       varchar(48),
  dsnccontent     blob(0, 1),
  maxlenlength   numeric(12,3),
  mrklength       numeric(12,3),
  mrkwidth        numeric(12,3),
  algorithm       varchar(4),
  lroperation     integer,
  lrmethord       integer,
  lrmethordcnt    integer,
  constraint pk_items_material primary key(ordno, itmname, mtname)
);
```