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-- Database: cpenDB

-- DROP DATABASE IF EXISTS "cpenDB";

CREATE DATABASE "cpenDB"
    WITH
        OWNER = postgres
        ENCODING = 'UTF8'
        LC_COLLATE = 'English_United States.1252'
        LC_CTYPE = 'English_United States.1252'
        TABLESPACE = pg_default
        CONNECTION LIMIT = -1;

-- Table: public.course

-- DROP TABLE IF EXISTS public.course;

CREATE TABLE IF NOT EXISTS public.course
(
    "courseName" character varying(100) COLLATE pg_catalog."default" NOT
    NULL,
    "courseCode" character varying(100) COLLATE pg_catalog."default" NOT
    NULL,
    CONSTRAINT course_pkey PRIMARY KEY ("courseCode")
)

TABLESPACE pg_default;

ALTER TABLE IF EXISTS public.course
    OWNER to postgres;

-- Table: public.enrolls_in

-- DROP TABLE IF EXISTS public.enrolls_in;

CREATE TABLE IF NOT EXISTS public.enrolls_in
(
    "studID" bigint NOT NULL,
    "courseCode" character varying(100) COLLATE pg_catalog."default" NOT
    NULL,
    CONSTRAINT rel_enrolls_in_pkey PRIMARY KEY ("courseCode", "studID"),
    CONSTRAINT "courseCode_fkey" FOREIGN KEY ("courseCode")
        REFERENCES public.course ("courseCode") MATCH SIMPLE
        ON UPDATE NO ACTION
        ON DELETE NO ACTION
        NOT VALID,
    CONSTRAINT "studID_fkey" FOREIGN KEY ("studID")
        REFERENCES public.student ("studID") MATCH SIMPLE
        ON UPDATE NO ACTION
        ON DELETE NO ACTION
        NOT VALID
)

TABLESPACE pg_default;

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ALTER TABLE IF EXISTS public.enrolls_in
    OWNER to postgres;

-- Table: public.is_assigned

-- DROP TABLE IF EXISTS public.is_assigned;

CREATE TABLE IF NOT EXISTS public.is_assigned
(
    "lecturerID" bigint NOT NULL,
    "courseCode" character varying(100) COLLATE pg_catalog."default" NOT
NULL,
    CONSTRAINT rel_is_assigned_pkey PRIMARY KEY ("lecturerID",
"courseCode"),
    CONSTRAINT "courseCode_fkey" FOREIGN KEY ("courseCode")
REFERENCES public.course ("courseCode") MATCH SIMPLE
ON UPDATE NO ACTION
ON DELETE NO ACTION
NOT VALID,
    CONSTRAINT "lecturerID_fkey" FOREIGN KEY ("lecturerID")
REFERENCES public.lecturer ("lecturerID") MATCH SIMPLE
ON UPDATE NO ACTION
ON DELETE NO ACTION
NOT VALID
)

TABLESPACE pg_default;

ALTER TABLE IF EXISTS public.is_assigned
    OWNER to postgres;

-- Table: public.lecturer

-- DROP TABLE IF EXISTS public.lecturer;

CREATE TABLE IF NOT EXISTS public.lecturer
(
    "fName" character varying(100) COLLATE pg_catalog."default" NOT NULL,
    "lName" character varying(100) COLLATE pg_catalog."default" NOT NULL,
    "lecturerID" bigint NOT NULL GENERATED ALWAYS AS IDENTITY ( INCREMENT
1 START 156895 MINVALUE 1 MAXVALUE 9223372036854775807 CACHE 1 ),
    sex "char" NOT NULL,
    CONSTRAINT "lecturerID_pkey" PRIMARY KEY ("lecturerID")
)

TABLESPACE pg_default;

ALTER TABLE IF EXISTS public.lecturer
    OWNER to postgres;

COMMENT ON TABLE public.lecturer
    IS 'Stores lecturer details';

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-- Table: public.student

-- DROP TABLE IF EXISTS public.student;

CREATE TABLE IF NOT EXISTS public.student
(
    "fName" character varying(100) COLLATE pg_catalog."default" NOT NULL,
    "lName" character varying(100) COLLATE pg_catalog."default" NOT NULL,
    "studID" bigint NOT NULL GENERATED ALWAYS AS IDENTITY ( INCREMENT 1
START 10904196 MINVALUE 1 MAXVALUE 9223372036854775807 CACHE 1 ),
    fees numeric(10,2) NOT NULL,
    sex "char" NOT NULL,
    "amountPaid" numeric(10,2) DEFAULT 0.00,
    CONSTRAINT student_pkey PRIMARY KEY ("studID")
)

TABLESPACE pg_default;

ALTER TABLE IF EXISTS public.student
    OWNER to postgres;

COMMENT ON TABLE public.student
    IS 'Stores student details....';

-- Table: public.teaches

-- DROP TABLE IF EXISTS public.teaches;

CREATE TABLE IF NOT EXISTS public.teaches
(
    "studID" bigint NOT NULL,
    "lecturerID" bigint NOT NULL,
    CONSTRAINT rel_teaches_pkey PRIMARY KEY ("studID", "lecturerID"),
    CONSTRAINT "lecturerID_fkey" FOREIGN KEY ("lecturerID")
        REFERENCES public.lecturer ("lecturerID") MATCH SIMPLE
        ON UPDATE NO ACTION
        ON DELETE NO ACTION
        NOT VALID,
    CONSTRAINT "studID_fkey" FOREIGN KEY ("studID")
        REFERENCES public.student ("studID") MATCH SIMPLE
        ON UPDATE NO ACTION
        ON DELETE NO ACTION
        NOT VALID
)

TABLESPACE pg_default;

ALTER TABLE IF EXISTS public.teaches
    OWNER to postgres;

-- Table: public.teachingAssistant

-- DROP TABLE IF EXISTS public."teachingAssistant";

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CREATE TABLE IF NOT EXISTS public."teachingAssistant"
(
    "fName" character varying(100) COLLATE pg_catalog."default" NOT NULL,
    "lName" character varying(100) COLLATE pg_catalog."default" NOT NULL,
    sex "char" NOT NULL,
    "lecturerID" bigint NOT NULL,
    "courseCode" character varying(100) COLLATE pg_catalog."default" NOT
NULL,
    CONSTRAINT "teachingAssistant_pkey" PRIMARY KEY ("courseCode",
"lecturerID"),
    CONSTRAINT "courseCode_fkey" FOREIGN KEY ("courseCode")
REFERENCES public.course ("courseCode") MATCH SIMPLE
ON UPDATE NO ACTION
ON DELETE NO ACTION
NOT VALID,
    CONSTRAINT "lecturerID_fkey" FOREIGN KEY ("lecturerID")
REFERENCES public.lecturer ("lecturerID") MATCH SIMPLE
ON UPDATE NO ACTION
ON DELETE NO ACTION
NOT VALID
)

TABLESPACE pg_default;

ALTER TABLE IF EXISTS public."teachingAssistant"
OWNER to postgres;

COMMENT ON TABLE public."teachingAssistant"
IS 'Stores T.As details';

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