**DDL SCRIPTS**

-Group 5d

--set search\_path to researchportal

CREATE TABLE researchportal.student

(

sid character(15) NOT NULL,

sname character varying(40),

prog\_name character varying(20),

batch integer,

cpi numeric(4,2),

CONSTRAINT student\_pkey PRIMARY KEY (sid)

);

CREATE TABLE researchportal.studentinterests

(

sid character(15) NOT NULL,

interest character varying(25) NOT NULL,

CONSTRAINT studentinterests\_pkey PRIMARY KEY (sid, interest),

CONSTRAINT studentinterests\_sid\_fkey FOREIGN KEY (sid)

REFERENCES researchportal.student (sid) MATCH SIMPLE

ON UPDATE CASCADE ON DELETE SET NULL

);

CREATE TABLE researchportal.studentskills

(

sid character(15) NOT NULL,

skills character varying(25) NOT NULL,

CONSTRAINT studentskills\_pkey PRIMARY KEY (sid, skills),

CONSTRAINT studentskills\_sid\_fkey FOREIGN KEY (sid)

REFERENCES researchportal.student (sid) MATCH SIMPLE

ON UPDATE CASCADE ON DELETE SET NULL

);

CREATE TABLE researchportal.department

(

dept\_id integer NOT NULL,

dept\_name character varying(25),

CONSTRAINT department\_pkey PRIMARY KEY (dept\_id)

);

CREATE TABLE researchportal.professor

(

prof\_name character varying(40),

designation character varying(20),

dept\_id integer,

h\_index integer,

i\_index integer,

prof\_id character(15) NOT NULL,

CONSTRAINT professor\_pkey PRIMARY KEY (prof\_id),

CONSTRAINT professor\_dept\_id\_fkey FOREIGN KEY (dept\_id)

REFERENCES researchportal.department (dept\_id) MATCH SIMPLE

ON UPDATE CASCADE ON DELETE SET NULL

);

CREATE TABLE researchportal.professorinterests

(

interest character varying(25) NOT NULL,

prof\_id character(15) NOT NULL,

CONSTRAINT professorinterests\_pkey PRIMARY KEY (prof\_id, interest),

CONSTRAINT professorinterests\_prof\_id\_fkey FOREIGN KEY (prof\_id)

REFERENCES researchportal.professor (prof\_id) MATCH SIMPLE

ON UPDATE CASCADE ON DELETE SET NULL

);

CREATE TABLE researchportal.research\_lab

(

name character varying(50),

room\_no integer NOT NULL,

building\_name character varying(25) NOT NULL,

phd\_supervisor character(15),

headed\_by character(15),

CONSTRAINT research\_lab\_pkey PRIMARY KEY (name),

CONSTRAINT research\_lab\_headed\_by\_fkey FOREIGN KEY (headed\_by)

REFERENCES researchportal.professor (prof\_id) MATCH SIMPLE

ON UPDATE CASCADE ON DELETE SET NULL,

CONSTRAINT research\_lab\_phd\_supervisor\_fkey FOREIGN KEY (phd\_supervisor)

REFERENCES researchportal.student (sid) MATCH SIMPLE

ON UPDATE CASCADE ON DELETE SET NULL

);

CREATE TABLE researchportal.project

(

proj\_id integer NOT NULL,

proj\_name character varying(25),

proj\_domain character varying(25),

inception\_date date,

conclusion\_date date,

status character varying(20),

CONSTRAINT project\_pkey PRIMARY KEY (proj\_id)

);

CREATE TABLE researchportal.student\_works\_on

(

proj\_id integer NOT NULL,

sid character(15) NOT NULL,

start\_date date,

end\_date date,

guided\_by character(15),

CONSTRAINT student\_works\_on\_pkey PRIMARY KEY (sid, proj\_id),

CONSTRAINT student\_works\_on\_guided\_by\_fkey FOREIGN KEY (guided\_by)

REFERENCES researchportal.professor (prof\_id) MATCH SIMPLE

ON UPDATE CASCADE ON DELETE SET NULL,

CONSTRAINT student\_works\_on\_proj\_id\_fkey FOREIGN KEY (proj\_id)

REFERENCES researchportal.project (proj\_id) MATCH SIMPLE

ON UPDATE CASCADE ON DELETE SET NULL,

CONSTRAINT student\_works\_on\_sid\_fkey FOREIGN KEY (sid)

REFERENCES researchportal.student (sid) MATCH SIMPLE

ON UPDATE CASCADE ON DELETE SET NULL

);

CREATE TABLE researchportal.professor\_works\_on

(

proj\_id integer NOT NULL,

start\_date date,

end\_date date,

prof\_id character(15) NOT NULL,

CONSTRAINT professor\_works\_on\_pkey PRIMARY KEY (prof\_id, proj\_id),

CONSTRAINT professor\_works\_on\_prof\_id\_fkey FOREIGN KEY (prof\_id)

REFERENCES researchportal.professor (prof\_id) MATCH SIMPLE

ON UPDATE CASCADE ON DELETE SET NULL,

CONSTRAINT professor\_works\_on\_proj\_id\_fkey FOREIGN KEY (proj\_id)

REFERENCES researchportal.project (proj\_id) MATCH SIMPLE

ON UPDATE CASCADE ON DELETE SET NULL

);

CREATE TABLE researchportal.conference

(

conference\_name character varying(200) NOT NULL,

scope character varying(15),

city character varying(20),

year integer,

CONSTRAINT conference\_pkey PRIMARY KEY (conference\_name)

);

CREATE TABLE researchportal.publication

(

doi character(15) NOT NULL,

publication\_name character varying(50),

publication\_date date,

field character varying(25),

publication\_type character varying(15),

conference\_name character varying(200),

impact\_factor numeric(5,3),

CONSTRAINT publication\_pkey PRIMARY KEY (doi),

CONSTRAINT publication\_conference\_name\_fkey FOREIGN KEY (conference\_name)

REFERENCES researchportal.conference (conference\_name) MATCH SIMPLE

ON UPDATE CASCADE ON DELETE SET NULL

)

CREATE TABLE researchportal.research\_contribution

(

doi character(15) NOT NULL,

author\_id character(15) NOT NULL,

CONSTRAINT research\_contribution\_pkey PRIMARY KEY (author\_id, doi),

CONSTRAINT research\_contribution\_doi\_fkey FOREIGN KEY (doi)

REFERENCES researchportal.publication (doi) MATCH SIMPLE

ON UPDATE CASCADE ON DELETE SET NULL

);