**USER STORED PROCEDURES**

CREATE FUNCTION "**spUser\_GetAll**"() RETURNS SETOF "User" AS 'SELECT \* FROM "User";' LANGUAGE 'sql';

CREATE FUNCTION "**spUser\_GetById**"(id integer) RETURNS "User" AS 'SELECT \* FROM "User" WHERE id="ID";' LANGUAGE 'sql';

CREATE FUNCTION "**spUser\_InsertValue**"(username VARCHAR, password VARCHAR, firstname VARCHAR,

middlename VARCHAR, lastname VARCHAR, givenname VARCHAR,

addr1 VARCHAR, addr2 VARCHAR, province VARCHAR, postalcode VARCHAR,

sex VARCHAR, phone VARCHAR, dob TIMESTAMP, email VARCHAR)

RETURNS void AS $$ INSERT INTO "User"("Username", "Password", "FirstName", "MiddleName", "LastName",

"GivenName", "Addr1", "Addr2", "Province", "PostalCode", "Sex", "Phone", "DOB", "Email")

VALUES (username, password, firstname, middlename, lastname, givenname, addr1, addr2, province, postalcode,

sex, phone, dob, email); $$ LANGUAGE 'sql';

CREATE FUNCTION "**spUser\_ModifyById**"(id int, username VARCHAR, password VARCHAR, firstname VARCHAR,

middlename VARCHAR, lastname VARCHAR, givenname VARCHAR, addr1 VARCHAR,

addr2 VARCHAR, province VARCHAR, postalcode VARCHAR, sex VARCHAR,

phone VARCHAR, dob TIMESTAMP, email VARCHAR)

RETURNS void AS $$ UPDATE "User" SET "Username"=username, "Password"=password, "FirstName"=firstname,

"MiddleName"=middlename, “LastName"=lastname, "GivenName"=givenname,

"Addr1"=addr1, "Addr2"=addr2, "Province"=province,

"PostalCode"=postalcode, "Sex"=sex, "Phone"=phone, "DOB" = dob,

"Email" = email WHERE id="ID";$$ LANGUAGE 'sql';

CREATE FUNCTION "**spUser\_DeleteById**"(id int) RETURNS void AS 'DELETE FROM "User" WHERE id="ID";' LANGUAGE 'sql';

CREATE FUNCTION "**spUser\_LastInserted**"(out cur\_user\_id int) AS $$ SELECT "ID" FROM "User" ORDER BY "ID" DESC LIMIT 1; $$ LANGUAGE 'sql';

**CUSTOMER STORED PROCEDURES**

CREATE FUNCTION "**spCustomer\_GetAll**"() RETURNS SETOF "Customer" AS 'SELECT \* FROM "Customer";' LANGUAGE 'sql';

CREATE FUNCTION "**spCustomer\_GetById**"(id integer) RETURNS "Customer" AS 'SELECT \* FROM "Customer" WHERE id="User\_ID";' LANGUAGE 'sql';

CREATE FUNCTION "**spCustomer\_InsertValue**"(user\_id int, table\_no int) RETURNS void AS 'INSERT INTO "Customer"("User\_ID", “TableNo") VALUES (user\_id, table\_no);' LANGUAGE 'sql';

CREATE FUNCTION "**spCustomer\_ModifyById**"(id int, tableno int) RETURNS void AS 'UPDATE "Customer" SET

"TableNo" = tableno WHERE id="User\_ID";' LANGUAGE ‘sql';

CREATE FUNCTION "**spCustomer\_DeleteById**"(id int) RETURNS void AS 'DELETE FROM “Customer" WHERE id=“User\_ID”;' LANGUAGE 'sql';

**DISH STORED PROCEDURES**

CREATE FUNCTION "**spDish\_GetAll**"() RETURNS SETOF "Dish" AS 'SELECT \* FROM "Dish";' LANGUAGE 'sql';

CREATE FUNCTION "**spDish\_GetById**"(id integer) RETURNS "Dish" AS 'SELECT \* FROM "Dish" WHERE id="Dish\_ID";' LANGUAGE 'sql';

CREATE FUNCTION "**spDish\_InsertValue**"(dish\_id int, available boolean, price decimal, description varchar, menu\_type varchar) RETURNS void AS 'INSERT INTO "Dish"("Dish\_ID", "Available", "Price", "Description", "Menu\_Type") VALUES (dish\_id, available, price, description, menu\_type);' LANGUAGE 'sql';

CREATE FUNCTION "**spDish\_ModifyById**"(id int, available boolean, price decimal, description varchar, menu\_type varchar) RETURNS void AS 'UPDATE "Dish" SET "Available" = available,"Price" = price,"Description" = description, "Menu\_Type" = menu\_type WHERE id="Dish\_ID";' LANGUAGE 'sql';

CREATE FUNCTION "**spDish\_DeleteById**"(id int) RETURNS void AS 'DELETE FROM "Dish" WHERE id="Dish\_ID";' LANGUAGE 'sql';

**COOK STORED PROCEDURES**

CREATE FUNCTION "**spCook\_GetAll**"() RETURNS SETOF "Cook" AS 'SELECT \* FROM "Cook";' LANGUAGE 'sql';

CREATE FUNCTION "**spCook\_GetById**"(id integer) RETURNS "Cook" AS 'SELECT \* FROM "Cook" WHERE id="User\_ID";' LANGUAGE 'sql';

CREATE FUNCTION "**spCook\_InsertValue**"(user\_id int, specialty varchar, type varchar) RETURNS void AS 'INSERT INTO "Cook"("User\_ID", "Specialty", "Type") VALUES (user\_id, specialty, type);' LANGUAGE 'sql';

CREATE FUNCTION "**spCook\_ModifyById**"(user\_id int, specialty varchar, type varchar)RETURNS void AS 'UPDATE "Cook" SET "Specialty" = specialty,"Type" = type WHERE user\_id="User\_ID";' LANGUAGE 'sql';

CREATE FUNCTION "**spCook\_DeleteById**"(user\_id int) RETURNS void AS 'DELETE FROM "Cook" WHERE user\_id="User\_ID";' LANGUAGE 'sql';

**EMPLOYEE STORED PROCEDURES**

CREATE FUNCTION "**spEmployee\_GetAll**"() RETURNS SETOF "Employee" AS 'SELECT \* FROM "Employee";' LANGUAGE 'sql';

CREATE FUNCTION "**spEmployee\_GetById**"(id integer) RETURNS "Employee" AS 'SELECT \* FROM "Employee" WHERE id="User\_ID";' LANGUAGE 'sql';

CREATE FUNCTION "**spEmployee\_InsertValue**"(user\_id int, start\_date timestamp, job\_title varchar, salary numeric, mgr\_id int) RETURNS void AS 'INSERT INTO "Employee"("User\_ID", "Start\_Date", "Job\_Title", "Salary", "mgr\_ID") VALUES (user\_id, start\_date, job\_title, salary, mgr\_id);' LANGUAGE 'sql';

CREATE FUNCTION "**spEmployee\_ModifyById**"(user\_id int, start\_date timestamp, job\_title varchar, salary numeric, mgr\_id int)RETURNS void AS 'UPDATE "Employee" SET "Start\_Date" = start\_date,"Job\_Title" = job\_title, "Salary" = salary, "mgr\_ID" = mgr\_id WHERE user\_id="User\_ID";' LANGUAGE 'sql';

CREATE FUNCTION "**spEmployee\_DeleteById**"(user\_id int) RETURNS void AS 'DELETE FROM "Employee" WHERE user\_id="User\_ID";' LANGUAGE 'sql';

**MANAGER STORED PROCEDURES**

CREATE FUNCTION "**spManager\_GetAll**"() RETURNS SETOF "Manager" AS 'SELECT \* FROM "Manager";' LANGUAGE 'sql';

CREATE FUNCTION "**spManager\_GetById**"(user\_id integer) RETURNS "Manager" AS 'SELECT \* FROM "Manager" WHERE user\_id="User\_ID";' LANGUAGE 'sql';

CREATE FUNCTION "**spManager\_InsertValue**"(user\_id int, area varchar) RETURNS void AS 'INSERT INTO "Manager"("User\_ID", "Area") VALUES (user\_id, area);' LANGUAGE 'sql';

CREATE FUNCTION "**spManager\_ModifyById**"(user\_id int, area varchar)RETURNS void AS 'UPDATE "Manager" SET "Area" = area WHERE user\_id="User\_ID";' LANGUAGE 'sql';

CREATE FUNCTION "**spManager\_DeleteById**"(user\_id int) RETURNS void AS 'DELETE FROM "Manager" WHERE user\_id="User\_ID";' LANGUAGE 'sql';

CREATE FUNCTION "**spManager\_GetNumberManagers**"(out num\_of\_managers bigint) AS $$ SELECT COUNT(\*) FROM "Manager"; $$ LANGUAGE 'sql';

**WAITER STORED PROCEDURES**

CREATE FUNCTION "**spWaiter\_GetAll**"() RETURNS SETOF "Waiter" AS 'SELECT \* FROM "Waiter";' LANGUAGE 'sql';

CREATE FUNCTION "**spWaiter\_GetById**"(user\_id integer) RETURNS "Waiter" AS 'SELECT \* FROM "Waiter" WHERE user\_id="User\_ID";' LANGUAGE 'sql';

CREATE FUNCTION "**spWaiter\_InsertValue**"(user\_id int, hours numeric, type varchar) RETURNS void AS 'INSERT INTO "Waiter"("User\_ID", "Hours", "Type") VALUES (user\_id, hours, type);' LANGUAGE 'sql';

CREATE FUNCTION "**spWaiter\_ModifyById**"(user\_id int, hours numeric, type varchar)RETURNS void AS 'UPDATE "Waiter" SET "Hours" = hours, "Type" = type WHERE user\_id="User\_ID";' LANGUAGE 'sql';

CREATE FUNCTION "**spWaiter\_DeleteById**"(user\_id int) RETURNS void AS 'DELETE FROM "Waiter" WHERE user\_id="User\_ID";' LANGUAGE 'sql';

**INGREDIENT STORED PROCEDURES**

CREATE FUNCTION "**spIngredient\_GetAll**"() RETURNS SETOF "Ingredient" AS 'SELECT \* FROM "Ingredient";' LANGUAGE 'sql';

CREATE FUNCTION "**spIngredient\_GetByName**"(ing\_name varchar) RETURNS "Ingredient" AS 'SELECT \* FROM "Ingredient" WHERE ing\_name="Name";' LANGUAGE 'sql';

CREATE FUNCTION "**spIngredient\_InsertValue**"(ing\_name varchar, price numeric, exp\_date timestamp, quantity numeric) RETURNS void AS 'INSERT INTO "Ingredient"("Name", "Price", "Exp\_Date", "Quantity") VALUES (ing\_name, price, exp\_date, quantity);' LANGUAGE 'sql';

CREATE FUNCTION "**spIngredient\_ModifyByName**"(ing\_name varchar, price numeric, exp\_date timestamp, quantity numeric)RETURNS void AS 'UPDATE "Ingredient" SET "Price" = price, "Exp\_Date" = exp\_date, "Quantity" = quantity WHERE ing\_name="Name";' LANGUAGE 'sql';

CREATE FUNCTION "**spIngredient\_DeleteByName**"(ing\_name varchar) RETURNS void AS 'DELETE FROM "Ingredient" WHERE ing\_name="Name";' LANGUAGE 'sql';