PL/SQL assignment II

SQL COMMANDS

SCRIPTS USED TO CREATE TABLES

i. create table clients(id int PRIMARY KEY auto_increment, clientName varchar(15), contactemail varchar(15), contactphone varchar(15), address varchar(30));

ii. create table employees(id int PRIMARY KEY auto_increment, first_name varchar(15), last_name varchar(15), position varchar(10), email varchar(15), phone_number varchar(15), salary varchar(20));

iii. create table projects(id int PRIMARY KEY auto_increment, projectName varchar(15), start_date varchar(15), end_date varchar(15), budget varchar(15), client_id int, location varchar(30), FOREIGN KEY (client_id) REFERENCES clients(id));

iv. create table tasks(id int PRIMARY KEY auto_increment, description varchar(15), start_date varchar(10), end_date varchar(10), project_id int, employee_id int, FOREIGN KEY (project_id) REFERENCES projects(id), FOREIGN KEY (employee_id) REFERENCES employees(id));

v. create table construction_materials(id int PRIMARY KEY auto_increment, name varchar(30), quantity varchar(30), unit_price varchar(30), task_id int, FOREIGN KEY (task_id) REFERENCES tasks(id));

vi. create table employee_status(employee_id int, status, FOREIGN KEY (employee_id) REFERENCES employees(id));

SCRIPTS USED TO add records to tables

i. insert into clients VALUES (2, 'CHUK_hospital', 'CHUK@gmail.com', '0788777766','Nyarugenge');

ii. insert into projects VALUES (2, 'Modern high-technology research laboratories construction', '2024-05-01', '2025-02-01','2,000,000 USD', 2);

iii. insert into employees VALUES (15, 'Kabano', 'Malick', 'laborer', 'kabs@gmail.com', '0788456321', '200000RWF',);

iv. insert into tasks VALUES (11, 'ceiling', '2024-05-01', '2024-12-01', 8, 3);

v. insert into construction_materials VALUES (1,'cement sacks', '50 sacks', '15000RWF', 1);

- ## The SQL command used to illustrate how table joins work

1. select employees.id as employee_id, concat(employees.first_name,' ', employees.last_name) as employee_full_name, tasks.description, projects.projectname from employees INNER JOIN tasks ON employees.id=tasks.employee_id INNER JOIN projects ON projects.id=tasks.project_id;

2. select employees.id as employee_id, concat(employees.first_name,' ', employees.last_name) as employee_full_name, tasks.description, projects.projectname, clients.clientname from employees INNER JOIN tasks ON employees.id=tasks.employee_id INNER JOIN projects ON projects.id=tasks.project_id INNER JOIN clients ON clients.id=projects.client_id;

➢ SQL command used to illustrate how delete works

mysql> delete from employees WHERE id=17;

Query OK, 1 row affected (0.00 sec)