Sample Data for phase-5.1 relationships and joins

employees (main table) create table employees (employee_id int primary key, name varchar(100));

insert into employees (employee_id, name) values (1, 'ankit rai'), (2, 'priya sen'), (3, 'rahul das'), (4, 'sneha roy');

employee_details (one-to-one with employees) create table employee_details (employee_id int primary key, phone varchar(20), address varchar(100), foreign key (employee_id) references employees(employee_id));

insert into employee_details (employee_id, phone, address) values (1, '9876543210', 'lucknow'), (2, '9123456780', 'delhi'), (3, '9988776655', 'mumbai');

departments (one-to-many with employees) create table departments (dept_id int primary key, dept_name varchar(50));

insert into departments (dept_id, dept_name) values (1, 'it'), (2, 'hr'), (3, 'finance');

employees_departments (link employees to departments) alter table employees add dept_id int; update employees set dept_id = 1 where employee_id in (1,5,9); update employees set dept_id = 2 where employee_id in (2,6,10); update employees set dept_id = 3 where employee_id in (3,8); update employees set dept_id = 4 where employee_id = 7;

projects (many-to-many with employees) create table projects (project_id int primary key, project_name varchar(50));

insert into projects (project_id, project_name) values (1, 'erp system'), (2, 'hr portal'), (3, 'finance dashboard');

employee_projects (junction table for many-to-many) create table employee_projects (employee_id int, project_id int, primary key (employee_id, project_id), foreign key (employee_id) references employees(employee_id), foreign key (project_id) references projects(project_id));

insert into employee_projects (employee_id, project_id) values (1, 1), (1, 2), (2, 2), (3, 3), (4, 1);