

```
--classs assignment 1
```

```
USE HEXADB
```

```
CREATE TABLE Clients (  
    Client_ID INT PRIMARY KEY,  
    Cname VARCHAR(40) NOT NULL,  
    Address VARCHAR(30),  
    Email VARCHAR(30) UNIQUE,  
    Phone BIGINT,  
    Business VARCHAR(20) NOT NULL  
);
```

```
create table departments (  
    deptno int primary key,  
    dname varchar(15) not null,  
    loc varchar(20)
```

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);
```

```
create table employees (  
    empno int primary key,  
    ename varchar(20) not null,  
    job varchar(15),  
    salary int,  
    deptno int,  
    constraint fk_dept foreign key (deptno) references departments(deptno)  
);
```

```
create table projects (  
    project_id int primary key,  
    descr varchar(30) not null,  
    start_date date,  
    planned_end_date date,  
    actual_end_date date ,  
    budget bigint,  
    client_id int,  
    constraint fk_client foreign key (client_id) references clients(client_id)  
);
```

```
create table empprojecttasks (  
    project_id int,  
    empno int,  
    start_date date,  
    end_date date,  
    task varchar(25) not null,  
    status varchar(15) not null,  
    primary key (project_id, empno),  
    constraint fk_project foreign key (project_id) references projects(project_id),  
    constraint fk_employee foreign key (empno) references employees(empno)  
);
```

```
insert into clients values (1001, 'ACME Utilities', 'Noida',  
    'contact@acmeutil.com', 9567880032, 'Manufacturing');
```

```
insert into clients values (1002, 'Trackon Consultants', 'Mumbai',
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'consult@trackon.com', 8734210090, 'Consultant');
insert into clients values (1003, 'MoneySaver Distributors', 'Kolkata',
'save@moneysaver.com', 7799886655, 'Reseller');
insert into clients values (1004, 'Lawful Corp', 'Chennai', 'justice@lawful.com',
9210342219, 'Professional');

insert into departments values (10, 'Design', 'Pune');
insert into departments values (20, 'Development', 'Pune');
insert into departments values (30, 'Testing', 'Mumbai');
insert into departments values (40, 'Document', 'Mumbai');

insert into employees values (7001, 'Sandeep', 'Analyst', 25000, 10);
insert into employees values (7002, 'Rajesh', 'Designer', 30000, 10);
insert into employees values (7003, 'Madhav', 'Developer', 40000, 20);
insert into employees values (7004, 'Manoj', 'Developer', 40000, 20);
insert into employees values (7005, 'Abhay', 'Designer', 35000, 10);
insert into employees values (7006, 'Uma', 'Tester', 30000, 30);
insert into employees values (7007, 'Gita', 'Tech. Writer', 30000, 40);
insert into employees values (7008, 'Priya', 'Tester', 35000, 30);
insert into employees values (7009, 'Nutan', 'Developer', 45000, 20);
insert into employees values (7010, 'Smita', 'Analyst', 20000, 10);
insert into employees values (7011, 'Anand', 'Project Mgr', 65000, 10);

insert into projects values (401, 'Inventory', '2011-04-01', '2011-10-01',
'2011-10-31', 150000.00, 1001);
insert into projects values (402, 'Accounting', '2011-08-01', '2012-01-01', null,
500000.00, 1002);
insert into projects values (403, 'Payroll', '2011-10-01', '2011-12-31', null,
75000.00, 1003);
insert into projects values (404, 'Contact Mgmt', '2011-11-01', '2011-12-31', null,
50000.00, 1004);

insert into empprojecttasks values (401, 7001, '2011-04-01', '2011-04-20', 'System
Analysis', 'Completed');
insert into empprojecttasks values (401, 7002, '2011-04-21', '2011-05-30', 'System
Design', 'Completed');
insert into empprojecttasks values (401, 7003, '2011-06-01', '2011-07-15',
'Coding', 'Completed');
insert into empprojecttasks values (401, 7004, '2011-07-18', '2011-09-01',
'Coding', 'Completed');
insert into empprojecttasks values (401, 7006, '2011-09-03', '2011-09-15',
'Testing', 'Completed');
insert into empprojecttasks values (401, 7009, '2011-09-18', '2011-10-05', 'Code
Change', 'Completed');
insert into empprojecttasks values (401, 7008, '2011-10-06', '2011-10-16',
'Testing', 'Completed');
insert into empprojecttasks values (401, 7007, '2011-10-06', '2011-10-22',
'Documentation', 'Completed');
```

```

insert into empprojecttasks values (401, 7011, '2011-10-22', '2011-10-31', 'Sign
off', 'Completed');
insert into empprojecttasks values (402, 7010, '2011-08-01', '2011-08-20', 'System
Analysis', 'Completed');
insert into empprojecttasks values (402, 7002, '2011-08-22', '2011-09-30', 'System
Design', 'Completed');
insert into empprojecttasks values (402, 7004, '2011-10-01', null, 'Coding', 'In
Progress');

```

```
SELECT * FROM Employees;
```

Results		Messages			
	empno	ename	job	salary	deptno
1	7001	Sandeep	Analyst	25000	10
2	7002	Rajesh	Designer	30000	10
3	7003	Madhav	Developer	40000	20
4	7004	Manoj	Developer	40000	20
5	7005	Abhay	Designer	35000	10
5	7006	Uma	Tester	30000	30
7	7007	Gita	Tech. Writer	30000	40
8	7008	Priya	Tester	35000	30
9	7009	Nutan	Developer	45000	20
10	7010	Smita	Analyst	20000	10
11	7011	Anand	Project Mgr	65000	10

```
SELECT * FROM CLIENTS;
```

Results		Messages			
Client_ID	Cname	Address	Email	Phone	Business
1001	ACME Utilities	Noida	contact@acmeutil.com	9567880032	Manufacturing
1002	Trackon Consultants	Mumbai	consult@trackon.com	8734210090	Consultant
1003	MoneySaver Distributors	Kolkata	save@moneysaver.com	7799886655	Reseller
1004	Lawful Corp	Chennai	justice@lawful.com	9210342219	Professional

```
SELECT * FROM PROJECTS;
```

Results		Messages				
project_id	descr	start_date	planned_end_date	actual_end_date	budget	client_id
401	Inventory	2011-04-01	2011-10-01	2011-10-31	150000.00	1001
402	Accounting	2011-08-01	2012-01-01	NULL	500000.00	1002
403	Payroll	2011-10-01	2011-12-31	NULL	75000.00	1003
404	Contact Mgmt	2011-11-01	2011-12-31	NULL	50000.00	1004

```
SELECT * FROM EmpProjectTasks;
```

%

Results Messages

project_id	empno	start_date	end_date	task	status
401	7001	2011-04-01	2011-04-20	System Analysis	Completed
401	7002	2011-04-21	2011-05-30	System Design	Completed
401	7003	2011-06-01	2011-07-15	Coding	Completed
401	7004	2011-07-18	2011-09-01	Coding	Completed
401	7006	2011-09-03	2011-09-15	Testing	Completed
401	7007	2011-10-06	2011-10-22	Documentation	Completed
401	7008	2011-10-06	2011-10-16	Testing	Completed
401	7009	2011-09-18	2011-10-05	Code Change	Completed
401	7011	2011-10-22	2011-10-31	Sign off	Completed
402	7002	2011-08-22	2011-09-30	System Design	Completed
402	7004	2011-10-01	NULL	Coding	In Progress
402	7010	2011-08-01	2011-08-20	System Analysis	Completed