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1 •  create database Employee_1;
2 •  use Employee_1;
3 •  create table Employee(e_no int,e_name varchar(30),MGR_no int,hiredate date,sal double,
4   dept_no int ,primary key(e_no),foreign key(dept_no)references Dept_details(dept_no));
5 •  select * from Employee;
6 •  create table Dept_details(dept_no int primary key,D_name varchar(30),D_loc varchar(35));
7 •  create table Incentives(e_no int, incentive_date date, incentive_amount double,
8   foreign key(e_no)references Employee(e_no));
9 •  select * from Incentives;
10 •  create table Project(p_no int primary key,p_loc varchar(30),p_name varchar(30));
11 •  select * from Project;
12 •  create table Assigned_to(e_no int,p_no int, job_role varchar(30),
13   foreign key(e_no)references Employee(e_no),foreign key(p_no) references Project(p_no));
14 •  insert into Employee values
15   (1001,'John',00,'2020-03-15',65000,1),(1002,'Sarah',1001,'2021-01-10',70000,2),
16   (1003,'Robert',1001,'2022-06-25',55000,3),(1004,'Mary',1002,'2021-11-05',62000,4),
17   (1005,'James',1002,'2023-02-14',58000,5),(11006,'Alice',1003,'2023-09-01',60000,6);
18 •  insert into Dept_details values
19   (1,'HR','New York'),(2,'IT','San Francisco'),(3,'Finance','Chicago'),
20   (4,'Marketing','Los Angles'),(5,'Operations','Houston'),(6,'Research','Boston');
21 •  insert into Project values (101,'New York','HR Automation'),(102,'San Francisco','Cloud Migration')
22   ,(103,'Chicago','Budget Tracker'),(104,'Los Angles','Ad Campaign')
23   ,(105,'Houston','Supply Chain'),(106,'Boston','AI Research');
24 •  insert into Assigned_to values(1001,101,'Project Manager'),(1002,102,'Software Engineer')
25   ,(1001,103,'Financial Analyst'),(1004,104,'Marketing Lead'),(1005,105,'Operations Specialist')
26   ,(11006,106,'Research Associate');
27 •  insert into Incentives values (1001,'2023-12-15',1500.00),(1002,'2023-12-15',2000.0),(1003,'2023-12-15',1200.0)
28   ,(1004,'2023-12-15',1800.0),(1005,'2024-01-20',1000.0),(11006,'2024-01-20',1700.0);
29

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update Employee

set sal=100000

where e_no =1001;

• **update Employee**

set dept_no=1

where e_no=1002;

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30 •   select e.e_no,d.D_loc from Employee e,Dept_details d  
31     where e.dept_no=d.dept_no and d.D_loc in ('New York','Los Angles','Chicago');  
32
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Result Grid | Filter Rows: | Export: | Wrap Cell Content:

	e_no	D_loc
▶	1001	New York
	1002	New York
	1003	Chicago
	1004	Los Angles

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33 •   select e_no from Employee  
34     where e_no not in (select e_no from Incentives);
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35
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Result Grid | Filter Rows: | Edit: | Export:

	e_no
*	NULL

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43 •   select MGR_no,count(*) from Employee where MGR_no is not null  
44     group by MGR_no order by MGR_NO desc;
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45
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Result Grid | Filter Rows: | Export: | Wrap Cell Content:

	MGR_no	count(*)
	1003	1
	1002	2
	1001	2

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48 •      select e.e_no,e.e_name from Employee e  
49       where e.sal >(select avg(m.sal) from Employee m where e.e_no=m.MGR_no);
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap C

	e_no	e_name
▶	1001	John
	1002	Sarah
*	NULL	NULL

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36 •      select distinct e.e_no,e.e_name,e.dept_no,a.job_role,d.D_loc,p.p_loc from Employee e,Dept_details d,Project p,Assigned_to a  
37       where e.dept_no=d.dept_no and d.D_loc=p.p_loc and e.e_no=a.e_no;  
38
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

e_no	e_name	dept_no	job_role	D_loc	p_loc
1002	Sarah	1	Software Engineer	New York	New York
1001	John	1	Project Manager	New York	New York
1001	John	1	Financial Analyst	New York	New York
1004	Mary	4	Marketing Lead	Los Angeles	Los Angeles
1005	James	5	Operations Specialist	Houston	Houston
11006	Alice	6	Research Associate	Boston	Boston

```
63 •      select e.e_no,e.dept_no  
64        from Employee e,Employee m  
65       where e.dept_no=m.dept_no and e.MGR_no=m.e_no;
```

Result Grid | Filter Rows: | Export: | Wrap C

	e_no	dept_no
▶	1002	1