

EMPLOYEE DATABASE

create database EMPLOYEES;

use EMPLOYEES;

CREATE TABLE DEPT (

DEPTNO INT PRIMARY KEY,

DNAME VARCHAR(50),

DLOC VARCHAR(50)

);

-- EMPLOYEE TABLE

CREATE TABLE EMPLOYEE (

EMPNO INT PRIMARY KEY,

ENAME VARCHAR(50),

MGR_NO INT,

HIREDATE DATE,

SAL DECIMAL(10,2),

DEPTNO INT,

FOREIGN KEY (DEPTNO) REFERENCES DEPT(DEPTNO)

);

-- PROJECT TABLE

CREATE TABLE PROJECT (

PNO INT PRIMARY KEY,

PLOC VARCHAR(50),

PNAME VARCHAR(50)

);

-- ASSIGNED-TO TABLE

CREATE TABLE ASSIGNED_TO (

EMPNO INT,

```
PNO INT,  
JOB_ROLE VARCHAR(50),  
FOREIGN KEY (EMPNO) REFERENCES EMPLOYEE(EMPNO),  
FOREIGN KEY (PNO) REFERENCES PROJECT(PNO)  
);
```

-- INCENTIVES TABLE

```
CREATE TABLE INCENTIVES (  
    EMPNO INT,  
    INCENTIVE_DATE DATE,  
    INCENTIVE_AMOUNT DECIMAL(10,2),  
    PRIMARY KEY (INCENTIVE_DATE),  
    FOREIGN KEY (EMPNO) REFERENCES EMPLOYEE(EMPNO)  
);
```

INSERT INTO DEPT (DEPTNO, DNAME, DLOC) VALUES

```
(10, 'Operations', 'Bengaluru'),  
(20, 'Sales', 'Hyderabad'),  
(30, 'Research', 'Mysuru'),  
(40, 'HumanResources', 'Chennai'),  
(50, 'IT', 'Pune'),  
(60, 'Marketing', 'Bengaluru'),  
(70, 'Support', 'Hyderabad');
```

INSERT INTO EMPLOYEE (EMPNO, ENAME, MGR_NO, HIREDATE, SAL, DEPTNO) VALUES

```
(1001, 'Ravi Kumar', NULL, '2022-01-15', 60000.00, 10),  
(1002, 'Anita Singh', 1001, '2022-03-10', 55000.00, 20),  
(1003, 'Suresh Patil', 1001, '2022-05-05', 50000.00, 10),  
(1004, 'Priya Menon', 1002, '2022-07-20', 65000.00, 30),  
(1005, 'Amit Sharma', 1002, '2022-09-01', 70000.00, 50),
```

(1006, 'Sunita Rao', 1001, '2023-01-10', 52000.00, 60),
(1007, 'Deepak Verma', 1003, '2023-02-05', 48000.00, 70);

INSERT INTO PROJECT (PNO, PLOC, PNAME) VALUES

(101, 'Bengaluru', 'CloudMigration'),
(102, 'Hyderabad', 'MobileAppDev'),
(103, 'Mysuru', 'AIResearch'),
(104, 'Chennai', 'HRSystemRevamp'),
(105, 'Pune', 'NetworkUpgrade'),
(106, 'Bengaluru', 'ECommercePlatform'),
(107, 'Hyderabad', 'CustomerSupportTool');

INSERT INTO ASSIGNED_TO (EMPNO, PNO, JOB_ROLE) VALUES

(1001, 101, 'Lead Architect'),
(1002, 102, 'Project Manager'),
(1003, 101, 'Developer'),
(1004, 103, 'Data Scientist'),
(1005, 105, 'Network Engineer'),
(1006, 106, 'E-Commerce Engineer'),
(1007, 107, 'Support Engineer');

INSERT INTO INCENTIVES (EMPNO, INCENTIVE_DATE, INCENTIVE_AMOUNT) VALUES

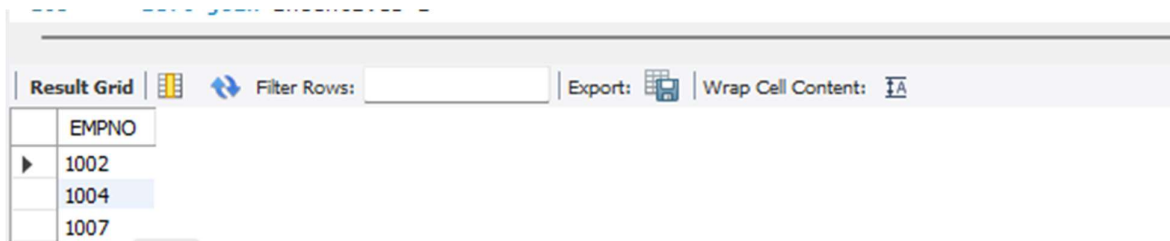
(1001, '2022-12-31', 5000.00),
(1002, '2023-01-15', 4500.00),
(1003, '2023-02-28', 4000.00),
(1004, '2023-03-30', 5500.00),
(1006, '2023-04-15', 3000.00);

QUERYS

Retrieve the employee numbers of all employees who work on project located in Bengaluru, Hyderabad, or Mysuru

```
select a.EMPNO
from assigned_to a
join project p
on a.PNO=p.PNO
where p.PLOC in('Bengaluru','Hyderabad', 'Mysuru');
```

OUTPUT:



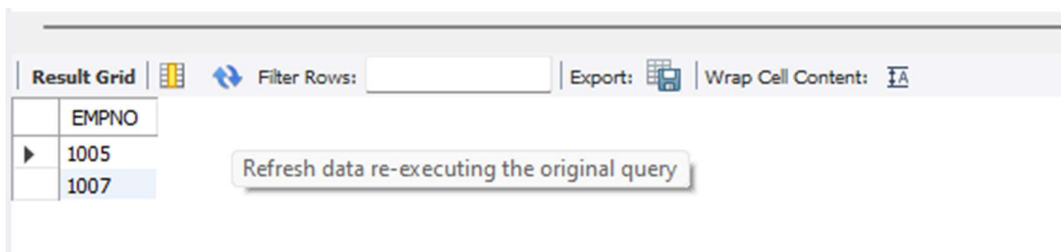
The screenshot shows a database interface with a 'Result Grid' tab. The grid contains three rows of data under the column header 'EMPNO'. The first row is 1002, the second is 1004, and the third is 1007. The row with 1004 is highlighted. Above the grid, there are controls for 'Filter Rows', 'Export', and 'Wrap Cell Content'.

EMPNO
1002
1004
1007

2. Get Employee ID's of those employees who didn't receive incentives

```
select e.EMPNO
from employee e
left join incentives i
on i.EMPNO=e.EMPNO
where i.EMPNO is NULL;
```

OUT PUT:



The screenshot shows a database interface with a 'Result Grid' tab. The grid contains two rows of data under the column header 'EMPNO'. The first row is 1005 and the second is 1007. The row with 1007 is highlighted. Above the grid, there are controls for 'Filter Rows', 'Export', and 'Wrap Cell Content'. A button labeled 'Refresh data re-executing the original query' is visible to the right of the grid.

EMPNO
1005
1007

3. Write a SQL query to find the employees name, number, dept, job_role, department location and project location who are working for a project location same as his/her department location.

```
select E.EMPNO,E.ENAME,D.DEPTNO,A.JOB_ROLE,D.DLOC,P.PLOC
```

```
FROM EMPLOYEE E
```

```
JOIN assigned_to A
```

```
on E.EMPNO=A.EMPNO
```

```
JOIN DEPT D
```

```
ON E.DEPTNO=D.DEPTNO
```

```
JOIN PROJECT P
```

```
ON P.PNO=A.PNO
```

```
WHERE D.DLOC=P.PLOC;
```

OUTPUT:

Result Grid Filter Rows: Export: Wrap Cell Content:						
	EMPNO	ENAME	DEPTNO	JOB_ROLE	DLOC	PLOC
▶	1001	Ravi Kumar	10	Lead Architect	Bengaluru	Bengaluru
	1002	Anita Singh	20	Project Manager	Hyderabad	Hyderabad
	1003	Suresh Patil	10	Developer	Bengaluru	Bengaluru
	1004	Priya Menon	30	Data Scientist	Mysuru	Mysuru
	1005	Amit Sharma	50	Network Engineer	Pune	Pune
	1006	Sunita Rao	60	E-Commerce Engineer	Bengaluru	Bengaluru
	1007	Deepak Verma	70	Support Engineer	Hyderabad	Hyderabad