

USING SET OPERATIONS

-- Creating EMPLOYEES table

```
CREATE TABLE employees (  
    employee_id NUMBER PRIMARY KEY,  
    first_name VARCHAR2(50),  
    last_name VARCHAR2(50),  
    job_id VARCHAR2(10),  
    department_id NUMBER  
);
```

-- Creating JOB_HISTORY table

```
CREATE TABLE job_history (  
    employee_id NUMBER,  
    job_id VARCHAR2(10),  
    start_date DATE,  
    end_date DATE,  
    department_id NUMBER,  
    FOREIGN KEY (employee_id) REFERENCES employees(employee_id)  
);
```

-- Creating DEPARTMENTS table

```
CREATE TABLE departments (  
    department_id NUMBER PRIMARY KEY,  
    department_name VARCHAR2(50),  
    location_id NUMBER  
);
```

-- Creating LOCATIONS table (for country details)

```
CREATE TABLE locations (  
    location_id NUMBER PRIMARY KEY,  
    country_id VARCHAR2(2),  
    city VARCHAR2(50)  
);
```

Inserting data into EMPLOYEES

```
INSERT INTO employees (employee_id, first_name, last_name, job_id, department_id)  
VALUES (1, 'John', 'Doe', 'ST_CLERK', 10);  
INSERT INTO employees (employee_id, first_name, last_name, job_id, department_id)  
VALUES (2, 'Jane', 'Smith', 'MANAGER', 20);
```

-- Inserting data into JOB_HISTORY

```
INSERT INTO job_history (employee_id, job_id, start_date, end_date, department_id) VALUES  
(1, 'CLERK', TO_DATE('2023-01-01', 'YYYY-MM-DD'), TO_DATE('2023-06-30', 'YYYY-MM-DD'),  
10);
```

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```
INSERT INTO job_history (employee_id, job_id, start_date, end_date, department_id) VALUES  
(2, 'ASSISTANT', TO_DATE('2022-01-01', 'YYYY-MM-DD'), TO_DATE('2022-12-31',  
'YYYY-MM-DD'), 20);
```

-- Inserting data into DEPARTMENTS

```
INSERT INTO departments (department_id, department_name, location_id) VALUES (10,  
'Accounting', 100);
```



```
INSERT INTO departments (department_id, department_name, location_id) VALUES (20,  
'Marketing', 200);
```

-- Inserting data into LOCATIONS

```
INSERT INTO locations (location_id, country_id, city) VALUES (100, 'US', 'New York');
```

```
INSERT INTO locations (location_id, country_id, city) VALUES (200, 'US', 'Los Angeles');
```

USING SET OPERATIONS



☒ Autocommit Rows  

```
select department_id from employees minus select department_id from employees where job_id='ST_CLERK';
```

Results Explain Describe Saved SQL History

DEPARTMENT_ID
20

1 rows returned in 0.00 seconds [Download](#)

☒ Autocommit Rows  


```
select country_id,city from locations minus select country_id,city from locations where location_id= NULL;
```

Results Explain Describe Saved SQL History

COUNTRY_ID	CITY
US	Los Angeles
US	New York

2 rows returned in 0.00 seconds [Download](#)

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☒ Autocommit Rows 10  Save Run



```
select job_id,department_id from employees intersect select job_id,department_id from employees where department_id in(10,50,20) order by department_id;
```

Results [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

JOB_ID	DEPARTMENT_ID
ST_CLERK	10
MANAGER	20

2 rows returned in 0.00 seconds [Download](#)

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☒ Autocommit Rows   Save Run

```
select employee_id,job_id from employees union select employee_id,job_id from job_history;
```



Results Explain Describe Saved SQL History

EMPLOYEE_ID	JOB_ID
1	CLERK
1	ST_CLERK
2	ASSISTANT
2	MANAGER

4 rows returned in 0.00 seconds [Download](#)

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USING SET OPERATIONS

☒ Autocommit Rows 10  

```
select last_name, department_id
from employees
minus
select null as last_name, department_id
from departments
order by department_id;
```

Results Explain Describe Saved SQL History

LAST_NAME	DEPARTMENT_ID
Doe	10
-	10
Smith	20
-	20

4 rows returned in 0.00 seconds [Download](#)