

Practice 7 - Answers

1. Departments without the job ID 'ST_CLERK'

```
SELECT department_id
FROM departments
MINUS
SELECT DISTINCT department_id
FROM employees
WHERE job_id = 'ST_CLERK';
```

2. Countries without departments

```
SELECT country_id, country_name
FROM countries
MINUS
SELECT DISTINCT c.country_id, c.country_name
FROM countries c
JOIN locations l ON c.country_id = l.country_id
JOIN departments d ON l.location_id = d.location_id;
```

3. Jobs for departments 10, 50, and 20 (in that order)

```
SELECT job_id, department_id
FROM employees
WHERE department_id = 10
UNION ALL
SELECT job_id, department_id
FROM employees
WHERE department_id = 50
UNION ALL
SELECT job_id, department_id
FROM employees
WHERE department_id = 20;
```

4. Employees who returned to their original job

```
SELECT employee_id, job_id
FROM employees
WHERE job_id =
```

```
(SELECT job_id  
FROM job_history  
WHERE employee_id = employees.employee_id  
ORDER BY start_date  
FETCH FIRST 1 ROW ONLY);
```

5. All employees and all departments (even without matches)

```
SELECT last_name, department_id  
FROM employees  
  
UNION  
  
SELECT department_name, department_id  
FROM departments;
```