EXERCISE 9

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ORACLE® Database Express Edition

Autocommit Display 10

```
CREATE TABLE department (
    department_id INT PRIMARY KEY,
    department_name VARCHAR(50),
    location_id INT
);
```

Results Explain Describe Saved SQL History

Table created.

0.00 seconds

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```
CREATE TABLE employees (
    employee_id INT PRIMARY KEY,
    last_name VARCHAR(50),
    hire_date DATE,
    salary DECIMAL(10,2),
    department_id INT,
    manager_id INT,
    job_id VARCHAR(10),
    FOREIGN KEY (department_id) REFERENCES department(department_id)
);
```

Results Explain Describe Saved SQL History

Table created.

0.00 seconds

1. The HR department needs a query that prompts the user for an employee last name. The

query then displays the last name and hire date of any employee in the same department

as the employee whose name they supply (excluding that employee). For example, if the

user enters Zlotkey, find all employees who work with Zlotkey (excluding Zlotkey).

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```
SELECT e.last_name, e.hire_date
FROM employees e
WHERE e.department_id = (
    SELECT department_id FROM employees WHERE last_name = 'Zlotkey'
)
AND e.last_name <> 'Zlotkey';
```

Results   Explain   Describe   Saved SQL   History

LAST_NAME	HIRE_DATE
Taylor	10-MAR-09

1 rows returned in 0.00 seconds   CSV Export

2. Create a report that displays the employee number, last name, and salary of all employees

who earn more than the average salary. Sort the results in order of ascending salary.

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```
SELECT employee_id, last_name, salary
FROM employees
WHERE salary > (
    SELECT AVG(salary) FROM employees
)
ORDER BY salary ASC;
```

Results   Explain   Describe   Saved SQL   History

EMPLOYEE_ID	LAST_NAME	SALARY
101	Kochhar	17000
102	De Haan	17000
100	King	24000

3 rows returned in 0.00 seconds   CSV Export

3. Write a query that displays the employee number and last name of all employees who work

in a department with any employee whose last name contains a u.

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```
SELECT e.employee_id, e.last_name
FROM employees e
WHERE e.department_id IN (
    SELECT DISTINCT department_id FROM employees WHERE last_name LIKE '%u%'
);
```

Results Explain Describe Saved SQL History

EMPLOYEE_ID	LAST_NAME
104	Ernst
103	Hunold

2 rows returned in 0.00 seconds   CSV Export

4. The HR department needs a report that displays the last name, department number, and job

ID of all employees whose department location ID is 1700.

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```
SELECT e.last_name, e.department_id, e.job_id
FROM employees e
JOIN department d ON e.department_id = d.department_id
WHERE d.location_id = 1700;
```

Results Explain Describe Saved SQL History

LAST_NAME	DEPARTMENT_ID	JOB_ID
King	30	AD_PRES
Kochhar	30	AD_VP
De Haan	30	AD_VP
Grant	10	AD_ASST

4 rows returned in 0.00 seconds   CSV Export

5. Create a report for HR that displays the last name and salary of every employee who reports

to King.

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```sql
SELECT e.last_name, e.salary
FROM employees e
WHERE e.manager_id = (
    SELECT employee_id FROM employees WHERE last_name = 'King'
);
```

Results   Explain   Describe   Saved SQL   History

LAST_NAME	SALARY
Kochhar	17000
De Haan	17000

2 rows returned in 0.00 seconds   CSV Export

6. Create a report for HR that displays the department number, last name, and job ID for every employee in the Executive department.

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```
SELECT e.department_id, e.last_name, e.job_id
FROM employees e
JOIN department d ON e.department_id = d.department_id
WHERE d.department_name = 'Executive';
```

Results Explain Describe Saved SQL History

DEPARTMENT_ID	LAST_NAME	JOB_ID
30	King	AD_PRES
30	Kochhar	AD_VP
30	De Haan	AD_VP

3 rows returned in 0.00 seconds   CSV Export

7.Modify the query 3 to display the employee number, last name, and salary of all employees who earn more than the average salary and who work in a department with any employee whose last name contains a u.

☑ Autocommit   Display [10 ▼]

```
SELECT e.employee_id, e.last_name, e.salary
FROM employees e
WHERE e.salary > (
    SELECT AVG(salary) FROM employees
)
AND e.department_id IN (
    SELECT DISTINCT department_id FROM employees WHERE last_name LIKE '%u%'
);
```

Results   **Explain**   **Describe**   **Saved SQL**   **History**

EMPLOYEE_ID	LAST_NAME	SALARY
109	Murphy	12000

1 rows returned in 0.00 seconds   CSV Export