SQL Training

Lesson-End Project Solution

Employee Data Analysis

1. Write a query to create an **employee** table with employee ID, first name, last name, job ID, salary, manager ID, and department ID fields

   SQL code:

```
CREATE TABLE lep_7.employee (
   emp_id int NOT NULL,
   f_name varchar(45) NULL,
   l_name varchar(45) NOT NULL,
   job_id varchar(45) NOT NULL,
   salary decimal(8,2) NOT NULL,
   manager_id int NOT NULL,
   dept_id varchar(45) NOT NULL,
   PRIMARY KEY(emp_id));
```

2. Write a query to insert values into the **employee** table

   SQL code:

```
INSERT INSERT INTO lep_7. employee
(emp_id,f_name,l_name,job_id,salary,manager_id,dept_id) VALUES
('103','krishna','gee','HP125','500000','05','44')
```

3. Write a query to find the first and last names of every employee whose salary is higher than the employee with the last name Kumar

   SQL code:

```
SELECT f_name,l_name FROM lep_7.employee where salary > (SELECT salary FROM
lep_7.employee WHERE l_name = 'kumar');
```

Output:

	f_name	l_name
▶	krishna	gee
	soniya	jain
	karan	patel
	shilpa	jain
	mukesh	singh

4. Write a query to display the employee ID and last name of every employee whose salary is greater than the average

   SQL code:

   SELECT f_name,l_name,salary FROM lep_7.employee WHERE salary > (SELECT AVG(salary) FROM lep_7.employee);

   Output:

	f_name	l_name	salary
▶	krishna	gee	500000.00
	soniya	jain	400000.00
	karan	patel	300001.00
	shilpa	jain	300001.00
	mukesh	singh	300001.00

5. Write a query to display the employee ID and first name of every employee whose salary is higher than the salary of the shipping clerks (JOB_ID = HP122) and sort the results in the ascending order of the salary

   SQL code:

   SELECT f_name,emp_id,salary FROM lep_7.employee WHERE salary > ALL (SELECT salary FROM lep_7.employee WHERE job_id = 'HP122') ORDER BY salary;

Output:

	f_name	emp_id	salary
▶	nithin	106	300000.00
	karan	107	300001.00
	shilpa	108	300001.00
	mukesh	109	300001.00
	soniya	105	400000.00
	krishna	103	500000.00

6. Write a query to display the first name, employee ID, and salary of the three employees with the highest salaries

SQL code:

```
SELECT DISTINCT emp_id ,f_name,salary FROM lep_7.employee a WHERE 3>=
(SELECT COUNT(DISTINCT salary) FROM lep_7.employee b WHERE b.salary >=
a.salary) ORDER BY a.salary DESC;
```

Output:

	emp_id	f_name	salary
▶	103	krishna	500000.00
	105	soniya	400000.00
	107	karan	300001.00
	108	shilpa	300001.00
	109	mukesh	300001.00