Bismillahhir Rahmanir Rahim

আন্তর্জাতিক ইসলামী বিশ্ববিদ্যালয় চট্টগ্রাম
الجامعة الإسلامية العالمية شيتاغونغ
International Islamic University Chittagong

Assignment

Assignment No. – 06

Submission date- 13 April, 2022

Course Title- DBMS (Lab)

Course Code: CSE-2424

Submited to-

Mr. Mohammad Aman Ullah

Assistant Professor

01815641524

ullah047@yahoo.com, aman_cse@iiuc.ac.bd

Submitted by-

MD. SOROWAR MAHABUB RABBY

Matric ID: ***C201032***, Section: ***4AM*** , Semester: ***4th***

Department of CSE (*Computer Science and Engineering*), IIUC

Cell: *01834756433, 01521564157, c201032@ugrad.iiuc.ac.bd*

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).**

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

LAST_NAME	HIRE_DATE
Russell	01-OCT-96
Abel	11-MAY-96
Hutton	19-MAR-97
Taylor	24-MAR-98

33 rows returned

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.**

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

EMPLOYEE_ID	LAST_NAME	SALARY
123	Vollman	6500
203	Mavris	6500
165	Lee	6800
113	Popp	6900
155	Tuvault	7000

51 rows returned

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. Place your SQL statement in a text file named lab_06_03.sql. Run your query.**

```
SELECT employee_id, last_name
FROM employees
WHERE department_id IN (SELECT department_id
 FROM employees
 WHERE last_name like '%u%');
```

EMPLOYEE_ID	LAST_NAME
107	Lorentz
106	Pataballa
105	Austin
104	Ernst
103	Hunold
119	Colmenares

90 rows returned

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.**

```
SELECT last_name, department_id, job_id
FROM employees
WHERE department_id IN (SELECT department_id
 FROM departments
 WHERE location_id = 1700);
```

LAST_NAME	DEPARTMENT_ID	JOB_ID
King	90	AD_PRES
Kochhar	90	AD_VP
De Haan	90	AD_VP
Greenberg	100	FI_MGR
Faviet	100	FI_ACCOUNT

18 rows returned

Modify the query so that the user is prompted for a location ID. Save this to a file named lab_06_04.sql.

```
SELECT last_name, department_id, job_id
FROM employees
WHERE department_id IN (SELECT department_id
 FROM departments
 WHERE location_id = :Enter_location);
```

>>>> Input: 1800

LAST_NAME	DEPARTMENT_ID	JOB_ID
Hartstein	20	MK_MAN
Fay	20	MK_REP

2 rows returned

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

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

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

```
SELECT department_id, last_name, job_id
FROM employees
WHERE department_id IN (SELECT department_id
 FROM departments
 WHERE department_name = 'Executive');
```

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

3 rows returned

7. **Modify the query in lab_06_03.sql 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.Resave lab_06_03.sql to lab_06_07.sql. Run the statement in lab_06_07.sql.**

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

EMPLOYEE_ID	LAST_NAME	SALARY
103	Hunold	9000
114	Raphaely	11000
123	Vollman	6500
122	Kaufling	7900
121	Fripp	8200

36 rows returned

Submitted by-

MD. SOROWAR MAHABUB RABBY

Matric ID: **C201032**, Section: **4AM**

Department of CSE (Computer Science and Engineering)