DIT UNIVERSITY
IMAGINE ASPIRE ACHIEVE

Non-Graded Lab Assignment-2 – CSF416, Web Technologies and Applications, ODD Sem, 2024

Student Name: Nidhi Singh ID: 1000016557 Major:Btech IT

Instructions

- There are **5** questions in this assignment.
- Email/paper/other modes of submissions will not be accepted.
- Upload a word **version** of this document.
- Submit the assignment by the due date and time.

Due Date: 24/9/24, 6 pm

Submitting this Assignment

You will submit (upload) this assignment in MS Teams. Name this document as NGLA1_AJPODD2024_John_Doe.doc in case your name is John Doe, and this non-graded lab assignment is no. 1 of course whose acronym is AJP, and offered in ODD 2024. Paste your code after each question, paste the screenshot of output, save and upload the document.

Grading Scheme: This assignment has 0 Marks. However, students must submit the complete assignment by the due date and time.

Question 1:
Write a MySQL query to create a simple table countries including columns country_id, country_name and region_id.

QUERY:

```
CREATE TABLE countries(COUNTRY_ID varchar(2),
                       COUNTRY_NAME varchar(40),
                       REGION_ID decimal(10,0));
```

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```
mysql> DESC countries;
+--------------+---------------+------+-----+---------+-------+
| Field        | Type          | Null | Key | Default | Extra |
+--------------+---------------+------+-----+---------+-------+
| COUNTRY_ID   | varchar(2)    | YES  |     | NULL    |       |
| COUNTRY_NAME | varchar(40)   | YES  |     | NULL    |       |
| REGION_ID    | decimal(10,0) | YES  |     | NULL    |       |
+--------------+---------------+------+-----+---------+-------+
3 rows in set (0.01 sec)
```

Question 2:
Write a MySQL query to create a table countries set a constraint NULL.

QUERY:

```
CREATE TABLE IF NOT EXISTS countries (
   COUNTRY_ID varchar(2) NOT NULL,
   COUNTRY_NAME varchar(40) NOT NULL,
   REGION_ID decimal(10,0) NOT NULL
);
```

```
postgres=# CREATE TABLE IF NOT EXISTS countries (
postgres(# COUNTRY_ID varchar(2) NOT NULL,
postgres(# COUNTRY_NAME varchar(40) NOT NULL,
postgres(# REGION_ID decimal(10,0) NOT NULL
postgres(# );
CREATE TABLE
```

Question 3:
Write a MySQL query to create a table named jobs including columns job_id, job_title, min_salary, max_salary and check whether the max_salary amount exceeding the upper limit 25000.

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QUERY:

```
CREATE TABLE IF NOT EXISTS jobs(
   JOB_ID varchar(10) NOT NULL,
   JOB_TITLE varchar(35) NOT NULL,
   MIN_SALARY decimal(6,0),
   MAX_SALARY decimal(6,0),
   CHECK(MAX_SALARY<=25000)
);
```

```
mysql> DESC jobs;
+------------+--------------+------+-----+---------+-------+
| Field      | Type         | Null | Key | Default | Extra |
+------------+--------------+------+-----+---------+-------+
| JOB_ID     | varchar(10)  | NO   |     | NULL    |       |
| JOB_TITLE  | varchar(35)  | NO   |     | NULL    |       |
| MIN_SALARY | decimal(6,0) | YES  |     | NULL    |       |
| MAX_SALARY | decimal(6,0) | YES  |     | NULL    |       |
+------------+--------------+------+-----+---------+-------+
4 rows in set (0.16 sec)
```

Question 4:
Write a SQL statement to change salary of employee to 8000 whose ID is 105, if the existing salary is less than 5000.

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	SALARY	MANAGER_ID	DEPARTMENT_ID
101	Steven	Kochhar	SK	515.123.4561	1987-06-11	25000.00	0	5

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102	Neena	Hunold	NH	515.123.4562	1987-03-14	24000.00	100	10
103	Lex	Ernst	LE	515.123.4563	1987-06-14	17000.00	102	20
104	Alexander	Austin	AA	515.123.4564	1987-06-19	16000.00	103	30
105	Bruce	Lorentz	BL	515.123.4565	1987-06-10	4000.00	104	40
106	David	Faviet	DF	515.123.4566	1987-06-12	9000.00	105	50
107	Valli	Chen	VC	515.123.4567	1987-06-17	8000.00	106	60

QUERY:

```
UPDATE employees SET SALARY = 8000 WHERE employee_id = 105 AND salary < 5000;
```

```
+-------------+------------+-----------+---------+--------------+------------+--------+---------+----------------+------------+---------------+
| EMPLOYEE_ID | FIRST_NAME | LAST_NAME | EMAIL   | PHONE_NUMBER | HIRE_DATE  | JOB_ID | SALARY  | COMMISSION_PCT | MANAGER_ID | DEPARTMENT_ID |
+-------------+------------+-----------+---------+--------------+------------+--------+---------+----------------+------------+---------------+
|         105 | David      | Austin    | DAUSTIN | 590.423.4569 | 1987-06-22 | IT_PROG | 8000.00 |           0.00 |        103 |            60 |
+-------------+------------+-----------+---------+--------------+------------+--------+---------+----------------+------------+---------------+
```

Question 5:

a. With the reference of the above table update the *DEPARTMENT_ID* of the employee whose salary is greater than 24000.00 to 101.
b. Write the MySQL command to delete the column of MANAGER_ID from the above table.

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QUERY:

a. UPDATE employees
SET department_id = 101
WHERE salary > 24000.00;

b. ALTER TABLE employees
DROP COLUMN manager_id;