



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

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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	515.123.45 62	1987-0 3-14	24000. 00	100	10
103	Lex	Ernst	LE	515.123.45 63	1987-0 6-14	17000. 00	102	20
104	Alexander	Austin	AA	515.123.45 64	1987-0 6-19	16000. 00	103	30
105	Bruce	Lorentz	BL	515.123.45 65	1987-0 6-10	4000.0 0	104	40
106	David	Faviet	DF	515.123.45 66	1987-0 6-12	9000.0 0	105	50
107	Valli	Chen	VC	515.123.45 67	1987-0 6-17	8000.0 0	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:

- With the reference of the above table update the *DEPARTMENT_ID* of the employee whose salary is greater than 24000.00 to 101.
- 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;