Skills for Hire Data Analytics Assignment 1 - SQL

Deadline: See Slack Post.

Maximum Assignment Credits: 30

Instructions:

Run the following queries on https://www.programiz.com/sql/online-compiler/

(Variable of the property of

(You may choose any other editor or software of your choice)

- Take a clear screenshot containing the query executed and output. (Only output screenshots will not be accepted). Copy your query and screenshot and paste it into word.
- Save the word file as a pdf and name it DA_Group_Assignment1_FirstName_LastName
- 1. SQL Queries (20 Credits)
 - i. Create a Table **EMPLOYEE** to store employee details as shown below (1)

empno	ename	job	mgr	hiredate	sal	comm	deptno
8369	SMITH	CLERK	8902	1990-12-18	800.00	NULL	20
8499	ANYA	SALESMAN	8698	1991-02-20	1600.00	300.00	30
8521	SETH	SALESMAN	8698	1991-02-22	1250.00	500.00	30
8566	MAHADEVAN	MANAGER	8839	1991-04-02	2985.00	NULL	20
8654	MOMIN	SALESMAN	8698	1991-09-28	1250.00	1400.00	30
8698	BINA	MANAGER	8839	1991-05-01	2850.00	NULL	30
8882	SHIVANSH	MANAGER	8839	1991-06-09	2450.00	NULL	10
8888	SCOTT	ANALYST	8566	1992-12-09	3000.00	NULL	20
8839	AMIR	PRESIDENT	NULL	1991-11-18	5000.00	NULL	10
8844	KULDEEP	SALESMAN	8698	1991-09-08	1500.00	0.00	30

- ii. Write statements for the following queries based on the table above:
 - a. Assign one column of your choice as the primary key. (1)
 - b. Display the **EMPLOYEE** table structure. (1)
 - c. Display all the records the from **EMPLOYEE** table. (1)
 - d. To display **ename** and **sal** of employees whose salaries are greater than or equal to 2200. (2)
 - e. To display all details of employees who are not getting commission. (2)
 - f. To display employee name and salary of those employees **who don't have** their salary in range of 2500 to 4000. (2)
 - g. To display the name, job title and salary of employees who don't have a manager. (2)
 - h. To display the name of employee whose name contains "A" as third alphabet. (2)
 - i. To display the name of employee whose name contains "T" as last alphabet. (2)
 - j. To display the name of employee whose name contains" M" as First and "L" as third alphabet. (2)
 - k. There has been an error, input the correct salary for Scott to 5000. (1)
 - 1. Display only the types of job. List them only once (1)

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- 2. Joins (5 Credits)
- i. Create the following tables and name them **student** and **project** respectively. (1)

STUDENT

Stdid	Fname	Lname	credits	Dept	Gender
100	Mary	Cooper	6000	Drama	F
101	Mike	Carpen	5000	Maths	M
102	Ryan	Smith	10000	Drama	M
103	Tom	Randall	4800	Maths	M
104	Ashley	Brown	5000	Science	F

PROJECT

Projected	Stdid	Projectname
1	100	Shakespeare
2	100	Greek Tragedy
3	100	Disaster
4	101	Trigonometry
5	102	Wizard of Oz
6	102	Creative dramatics
7	102	Modern Art
8	106	Natural Language Processing
9	104	Gravity

- ii. Write QUERIES for the following statements based on the tables above:
 - a. Get name, project name order by firstname from "student" and "project" for all students who have project assigned to them. (1)
 - b. Get name, project name order by lastname from "student" and "project" for all students who **do not have** a project assigned to them. (1)
 - c. Get all project name even if they **do not have** any matching stdid, order by firstname. (1)
 - d. Get complete records from both tables. (1)
- 3. Assume you have the data schema as follows: (No need to create a table on the online compiler)
- Student (<u>ID</u>, NAME, SUBJECT, AVERAGE, DIV, CREDITS)
- *Teacher* (*SUBJECT*, *PNAME*,) (5 Credits)

Write the following queries:

- a. Display the student, professor name and the subject. (1)
- b. Display all the student and professor name who are offering subjects Maths and Science. (2)
- c. Correct the following query if you find any errors (2)

Select NAME from Student where CREDITS = null;

Select NAME, CREDITS From Student where CREDITS BETWEEN 10 AND 20;