

# Skills for Hire

## Data Analytics

### Assignment 1 - SQL

Deadline: August 20, 2023 - 11:59 pm Atlantic Time

Maximum Assignment Credits: 40

Instructions:

- Open a blank Word or Google Document
- Run queries for the below tasks on <https://www.programiz.com/sql/online-compiler/>  
OR You may choose any other editor or software of your choice
- **Take a clear screenshot containing the query executed and output. Screenshots that do not include the query will not be accepted. Copy your query and screenshot and paste it into your blank document.**
- Save the word file as a **PDF** and use the following convention to name your file (replace bolded items):  
**DA\_Group\_Assignment1\_StudentID\_FirstName\_LastName**
- **Submit** your PDF to the [Submission Form](#)

#### Question 1 (20 Credits)

- a. Create the table named **EMPLOYEE**, insert the employee details below and assign a primary key (3)

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

- b. Return only the jobs from the table. List them only once (1).
- c. Return all records from the table. (2)
- d. Return employee name and salary of employees whose salaries are greater than or equal to 2200. (2)
- e. Return employee name and salary of those employees **who do not have** their salary in the range of 2500 to 4000. (2)
- f. Return employee name whose name contains "I" as third character. (2)
- g. Return employee name whose name contains "M" as first and "H" as third character. (2)
- h. Count the number of employees in each department, with the department number along with the employee count. (2)
- i. Return employee name and hire dates of employees hired after 1991-01-01. (2)
- j. Calculate the average salary of all employees. (2)

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#### Question 2 (20 Credits)

- a) Create the following tables and name them **student** and **project** respectively. (2)

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

project_id	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

- b) Return the project names along with the corresponding student details (first name, last name) for all projects. (2)
- c) Return the project names and the corresponding student details (first name, last name) for projects assigned to students in the "Maths" department. (2)
- d) Return all students along with the project names (if any) they are assigned to. (2)
- e) Return all students and the project names (if any) they are assigned to, but only for the students in the "Drama" department. (2)
- f) Return the total number of projects each student is assigned to, along with their details (first name, last name). (2)

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- g) Return all students with the gender "F", with their total credits (2)
- h) Return all students whose last name ends with "pen". (2)
- i) Return the names of students with the gender "M", with more than 4999 credits, sorted alphabetically by their first names. (2)
- j) Return all students' details and sort them based on their credits in descending order. (2)