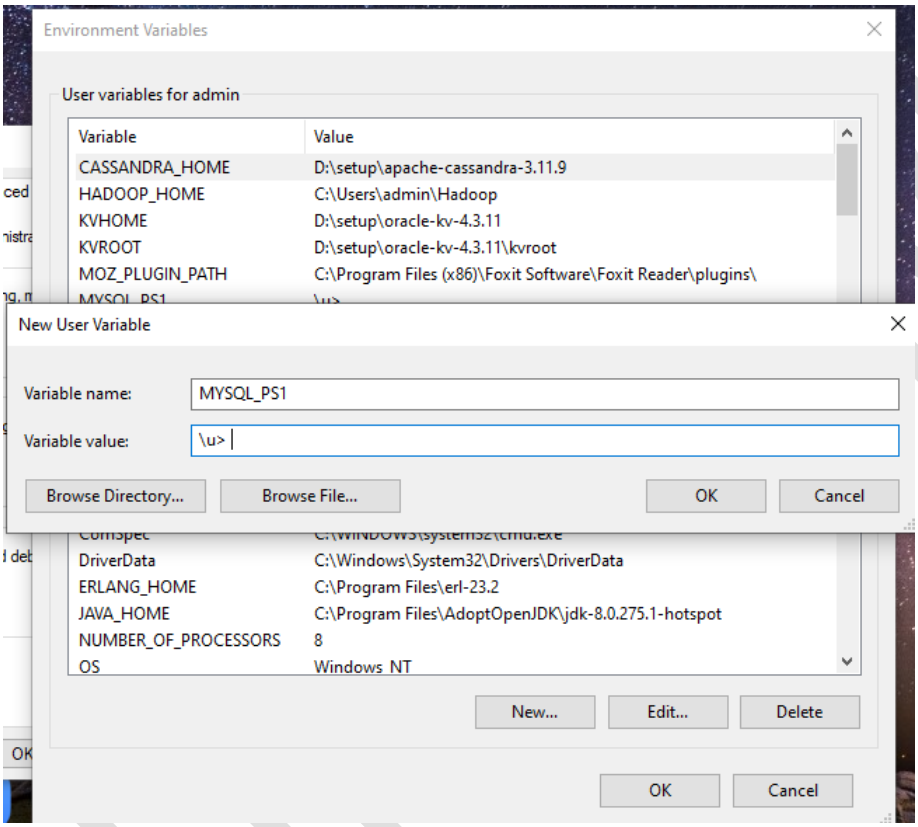
Database Technologies – Assignment 2

1. Create user with your roll number and group name. If your roll number is **12345** and group is **d1**, then username should be **d1_12345**. Give ALL privileges to this user all databases created in previous assignment. You are expected to use this user for completing all further assignments.

2. Create an environment variable by name MYSQL_PS1 and set it to **\u> .** Now start MySQL client CLI and you should see your username in prompt instead of **mysql>** .



3. Create 'spj' database & grant all permissions to your username (created in Q.1).

4. Create following tables in ‘spj’ database. (This assignment is to practice INSERT queries).

CREAT TABLE S (S# CHAR(5), Sname CHAR(20), Status SMALLINT, City CHAR(15));

S#	Sname	Status	City
S1	Smith	20	London
S2	Jones	10	Paris
S3	Blake	30	Paris
S4	Clark	20	London
S5	Adams	30	Athens

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CREATE TABLE P (P# CHAR(6), Pname CHAR(20), Color CHAR(6), Weight SMALLINT , CITY CHAR(15));

P#	Pname	Color	Weight	City
P1	Nut	Red	12	London
P2	Bolt	Green	17	Paris
P3	Screw	Blue	17	Rome
P4	Screw	Red	14	London
P5	Cam	Blue	12	Paris
P6	Cog	Red	19	London

CREATE TABLE J (J# CHAR(4), Jname CHAR(10), Jname CHAR(10), City CHAR(15));

J#	Jname	City
J1	Sorter	Paris
J2	Punch	Rome
J3	Reader	Athens
J4	Console	Athens
J5	Collator	London
J6	Terminal	Oslo
J7	Tape	London

CREATE TABLE sp (S# CHAR(4), P# CHAR(4), J# CHAR(4), QTY INT);

S#	P#	J#	QTY
S1	P1	J1	200
S1	P1	J4	700
S2	P3	J1	400
S2	P3	J2	200
S2	P3	J3	200
S2	P3	J4	500
S2	P3	J5	600
S2	P3	J6	400
S2	P3	J7	800
S2	P5	J2	100
S3	P3	J1	200
S3	P4	J2	500
S4	P6	J3	300
S4	P6	J7	300
S5	P2	J2	200
S5	P2	J4	100
S5	P5	J5	500

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S5   P5   J7   100
S5   P6   J2   200
S5   P1   J4   100
S5   P3   J4   200
S5   P4   J4   800
S5   P5   J4   400
S5   P6   J4   500
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Write the SELECT queries to do the following:

Note: To solve below queries use "hr" database
(HR database data is partial. For few queries you may have empty resultset).

1. Write a query to display the first_name, last_name using alias name "First Name", "Last Name".

2. Write a query to get the names (first_name, last_name), salary, PF of all the employees (PF is calculated as 15% of salary).

3. Write a query to select first 10 records from a employees table.

4. Write a query to display job id and job title of first 5 jobs.

5. Write a query to display location id, street address and postal code of 6 locations after first 3 locations.

6. Write a query to display job title and difference between max and min salary for that job.

7. Write a query to get unique department ID from employee table.

8. Write a query to get all employee details from the employee table order by first name, descending.

9. Write a query to get the employee ID, names (first_name, last_name), salary in ascending order of salary.

10. Display first name and join date of the employees who is either IT Programmer or Sales Man.

11. Display details of employee with ID 150 or 160.

12. Display first name, salary, commission pct, and hire date for employees with salary less than 10000.

13. Display details of jobs in the descending order of the title.

14. Display details of the employees where commission percentage is null and salary in the range 5000 to 10000 and department is 30.

15. Display employees first_name,email who are working in "Executive" department.

16. Display unique contry_id from locations table.

17. Display all employees whose have job_id IT_PROG and FI_ACCOUNT.

18. Display all countries in ascending order.

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Note: To solve below queries use "spj" database

1. Display all the data from the S table.
2. Display only the S# and SNAME fields from the S table.
3. Assuming that the Part Weight is in GRAMS, display the same in MILLIGRAMS and KILOGRAMS.
4. Display the PNAME and COLOR from the P table for the CITY="London".
5. Display all the Suppliers from London.
6. Display all the Suppliers from Paris or Athens.
7. Display all the Projects in Athens.
8. Display all the Partnames with the weight between 12 and 14 (inclusive of both).
9. Display all the Suppliers with a Status greater than or equal to 20.
10. Display all the Suppliers except the Suppliers from London.
11. Display only the Cities from where the Suppliers come from.
12. Display the Supplier table in the descending order of CITY.
13. Display the Part Table in the ascending order of CITY and within the city in the ascending order of Part names.
14. Display all the Suppliers with a status between 10 and 20.
15. Display all the Parts and their Weight, which are not in the range of 10 and 15.

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Note : To solve below queries use "sales" database

1. Write a select command that produces the order number, amount, and date for all rows in the Orders table.

2. Write a query that displays the Salespeople table with the columns in the following order: city, sname, snum, comm.

3. Write a query that produces all rows from the Customers table for which the salesperson's number is 1001.

4. Write a select command that produces the rating followed by the name of each customer in San Jose.

5. Write a query that will produce the snum values of all salespeople from the Orders table (with the duplicate values suppressed).

6. Write a query that will give you all orders for more than Rs. 1,000.

7. Write a query that will give you the names and cities of all salespeople in London with a commission above 0.10.

8. Write a query on the Customers table whose output will exclude all customers with a rating <= 100, unless they are located in Rome.

9. Write a query that selects all orders except those with zeroes or NULLs in the amt field.