CASE_STUDY (NUMBER -02)---SOLUTION SUBMISSION

AZURE ANALYTICS

 \mathbf{BY}

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BATCH: DXC-262-ANALYTICS-B12-AZURE TRAINING UNDER: MANIPAL PRO LEARN

DATE OF SUBMISSION: 31-05-2022

EMPLOYEE DOMAIN - AZURE ANALYTICS

ROLL NO: DXC262AB12021 COMPANY – DXC TECHNOLOGY TRAINER NAME – MR. AJAY KUMAR NO OF TEST CASES:10

PROBLEM STATEMENT:

Assignment 31st May 2022:

Global-tech incorporation is leading Biotech & Medical distribution company, has decided to migrate their data warehouse (around volume of 300TB uncompressed) to Cloud. Also, this organization has decided to migrate all downstream applications to Azure. Since its COVID — pandemic situation, hence its critical time & ETA is very less, the whole migration had to happen seamlessly, Using Azure cloud Service — we have to develop solutions for Global-tech. and migration activity to be performed.

PART - 1:

Table:

emp_id | emp_name | job_name | manager_id | hire_date | salary | commission | dep_id

68319 | KAYLING | PRESIDENT | | 1991-11-18 | 6000.00 | | 1001

66928 | BLAZE | MANAGER | 68319 | 1991-05-01 | 2750.00 | | 3001

67832 | CLARE | MANAGER | 68319 | 1991-06-09 | 2550.00 | | 1001

65646 | JONAS | MANAGER | 68319 | 1991-04-02 | 2957.00 | | 2001

67858 | SCARLET | ANALYST | 65646 | 1997-04-19 | 3100.00 | | 2001

69062 | FRANK | ANALYST | 65646 | 1991-12-03 | 3100.00 | | 2001

63679 | SANDRINE | CLERK | 69062 | 1990-12-18 | 900.00 | | 2001

64989 | ADELYN | SALESMAN | 66928 | 1991-02-20 | 1700.00 | 400.00 | 3001

65271 | WADE | SALESMAN | 66928 | 1991-02-22 | 1350.00 | 600.00 | 3001

66564 | MADDEN | SALESMAN | 66928 | 1991-09-28 | 1350.00 | 1500.00 | 3001

 $68454 \mid TUCKER \mid SALESMAN \mid 66928 \mid 1991-09-08 \mid 1600.00 \mid 0.00 \mid 3001$

68736 | ADNRES | CLERK | 67858 | 1997-05-23 | 1200.00 | | 2001

69000 | JULIUS | CLERK | 66928 | 1991-12-03 | 1050.00 | | 3001

69324 | MARKER | CLERK | 67832 | 1992-01-23 | 1400.00 | | 1001

THE CASES:

case 9. From the following table, write a SQL query to find the employee ID, salary, and commission of all the employees

case 10. From the following table, write a SQL query to find the unique department with jobs. Return department ID, Job name.

case 11. From the following table, write a SQL query to find those employees who do not belong to the department 2001.

Return complete information about the employees.

case 12. From the following table, write a SQL query to find those employees who joined before 1991.

Return complete information about the employees

case 13. From the following table, write a SQL query to compute the average salary of those employees who work as 'ANALYST'.

Return average salary.

case 14. From the following table, write a SQL query to find the details of the employee 'BLAZE'

case 15. From the following table, write a SQL query to find those employees whose commission is more than their salary.

Return complete information about the employees

case 16. From the following table, write a SQL query to find those employees whose salary exceeds 3000 after giving 25% increment.

Return complete information about the employees

case 17. From the following table, write a SQL query to find the names of the employees whose length is six.

Return employee name

case 18. From the following table, write a SQL query to find those employees who joined in the month January.

Return complete information about the employees

case 19. From the following table, write a SQL query to find the name of employees and their manager separated by the string 'works for'.

case 20. From the following table, write a SQL query to find those employees whose designation is 'CLERK'.

Return complete information about the employees.

Please create a word / pdf document, and send it to: avyuktitraining1@gmail.com

INTRODUCTION

This is a case study given by manipal pro learn team on the basis of the training done in the forenoon session of this morning. The main objective behind this case study is to work on industry-based problems and achieve solutions for the solutions.

The problem statement have ten cases and these are of easy to moderately difficult level. All the cases have been focused on what the trainer taught in the earlier sessions. Basic operations in the data using SQL are performed that include:

- CREATE
- INSERT
- UPDATE
- SELECT

Along with some more interesting cases.

This case study gives me immense confidence in mastering the domain that has been assigned to me.

The queries have been highlighted with green color and later the snap shot of the output is attached.

SOLUTIONS:

CREATING TABLE:

CREATE TABLE globetechtb2312 (emp_id INT , emp_name VARCHAR(220) ,job_name VARCHAR(220) , manager_id INT , hire_date DATE , salary FLOAT , commission FLOAT , dep_id INT).

INSERTING:

INSERT INTO globetechtb2312 (emp_id , emp_name ,job_name , manager_id, hire_date , salary , commission , dep_id)

values (68319, 'KAYLING', 'PRESIDENT', NULL, DATE'1991-11-18', 6000.00, NULL, 1001);

INSERT INTO globetechtb2312 (emp_id , emp_name ,job_name , manager_id, hire_date , salary , commission , dep_id)

values (66928, 'BLAZE', 'MANAGER', 68319, DATE'1991-05-01', 2750.00, NULL, 3001);

INSERT INTO globetechtb2312 (emp_id , emp_name ,job_name , manager_id, hire_date , salary , commission , dep_id)

values (67832, 'CLARE', 'MANAGER', 68319, DATE'1991-06-09', 2550.00, NULL, 1001);

INSERT INTO globetechtb2312 (emp_id , emp_name ,job_name , manager_id, hire_date , salary , commission , dep_id)

values (65646, 'JONAS', 'MANAGER', 68319, DATE'1991-04-02', 2957.00, NULL, 2001);

INSERT INTO globetechtb2312 (emp_id , emp_name ,job_name , manager_id, hire_date , salary , commission , dep_id)

values (67858, 'SCARLET', 'ANALYST', 65646, DATE'1997-04-19', 3100.00, NULL, 2001);

INSERT INTO globetechtb2312 (emp_id , emp_name ,job_name , manager_id, hire_date , salary , commission , dep_id)

values (69062, 'FRANK', 'ANALYST', 65646, DATE'1991-12-03', 3100.00, NULL, 2001);

INSERT INTO globetechtb2312 (emp_id , emp_name ,job_name , manager_id, hire_date , salary , commission , dep_id)

values (63679, 'SANDRINE', 'CLERK', 69062, DATE'1990-12-18', 900.00, NULL, 2001);

INSERT INTO globetechtb2312 (emp_id , emp_name ,job_name , manager_id, hire_date , salary , commission , dep_id)

values (64989, 'ADELYN', 'SALESMAN', 66928, DATE'1991-02-20', 1700.00, 400.00, 3001);

INSERT INTO globetechtb2312 (emp_id, emp_name,job_name, manager_id, hire_date, salary, commission, dep_id)

values (65271, 'WADE', 'SALESMAN', 66928, DATE'1991-02-22', 1350.00, 600.00, 3001);

 $INSERT\ INTO\ globetechtb 2312\ (emp_id\ ,\ emp_name\ ,job_name\ ,\ manager_id,\ hire_date\ ,\ salary\ ,\ commission\ ,\ dep_id)$

values (66564, 'MADDEN', 'SALESMAN', 66928, DATE'1991-09-28', 1350.00, 1500.00, 3001);

 $INSERT\ INTO\ globetechtb2312\ (emp_id\ ,\ emp_name\ ,job_name\ ,\ manager_id\ ,\ hire_date\ ,\ salary\ ,\ commission\ ,\ dep_id)$

values (68454, 'TUCKER', 'SALESMAN', 66928, DATE'1991-09-08', 1600.00, 0.00, 3001);

INSERT INTO globetechtb2312 (emp_id , emp_name ,job_name , manager_id, hire_date , salary , commission , dep_id)

values (68736, 'ADNRES', 'CLERK', 67858, DATE'1997-05-23', 1200.00, NULL, 2001);

INSERT INTO globetechtb2312 (emp_id , emp_name ,job_name , manager_id, hire_date , salary , commission , dep_id)

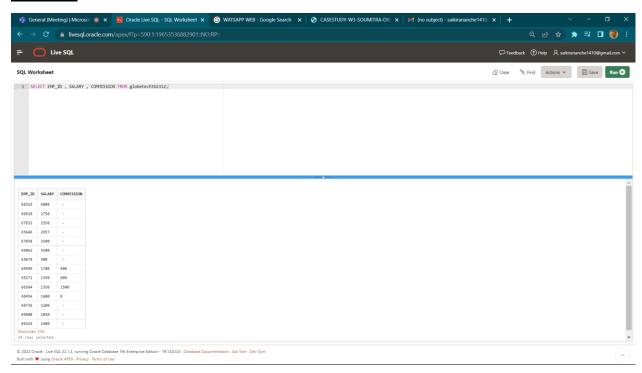
values (69000, 'JULIUS', 'CLERK', 66928, DATE'1991-12-03', 1050.00, NULL, 3001);

INSERT INTO globetechtb2312 (emp_id , emp_name ,job_name , manager_id, hire_date , salary , commission , dep_id)

values (69324, 'MARKER', 'CLERK', 67832, DATE' 1992-01-23', 1400.00, NULL, 1001);

CASE 9:

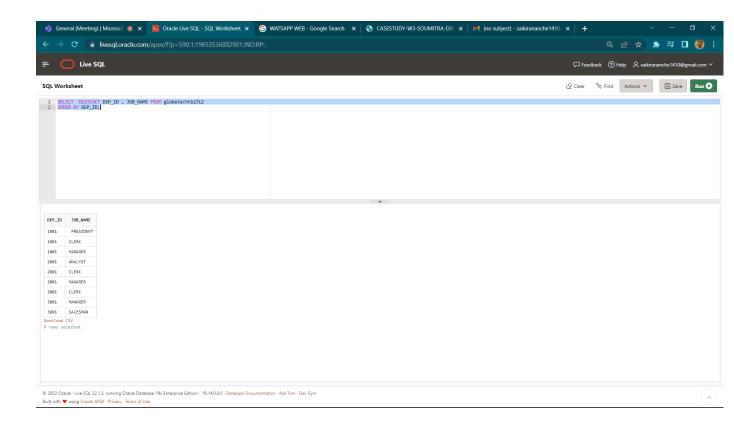
SELECT EMP_ID, SALARY, COMMISSION FROM globetechtb2312;



CASE 10:

SELECT DISTINCT DEP_ID, JOB_NAME FROM globetechtb2312

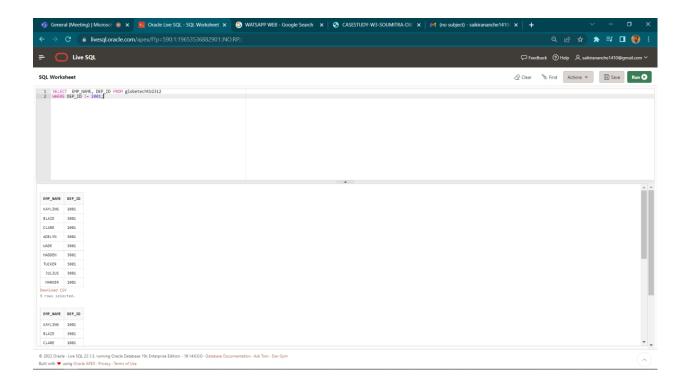
ORDER BY DEP_ID;



CASE 11;

SELECT EMP_NAME, DEP_ID FROM globetechtb2312

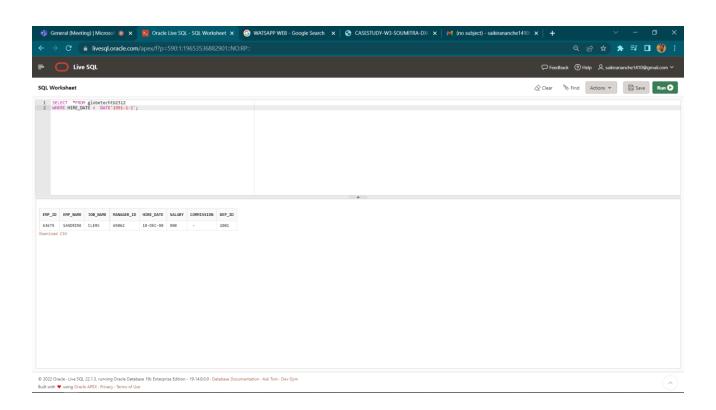
WHERE DEP_ID != 2001;



CASE 12:

SELECT *FROM globetechtb2312

WHERE HIRE_DATE < DATE'1991-1-1';

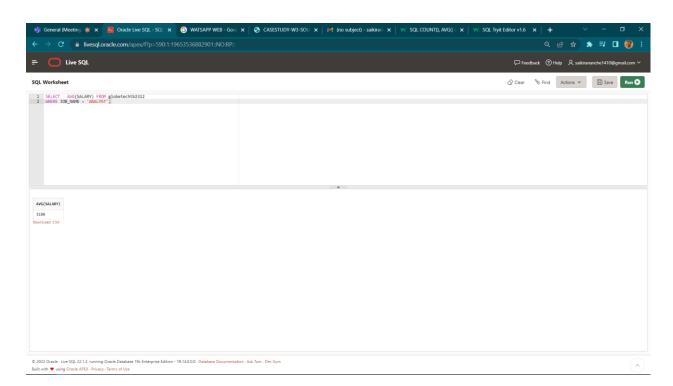


CASE13:

From the following table, write a SQL query to compute the average salary of those employees who work as 'ANALYST'.

Return average salary.

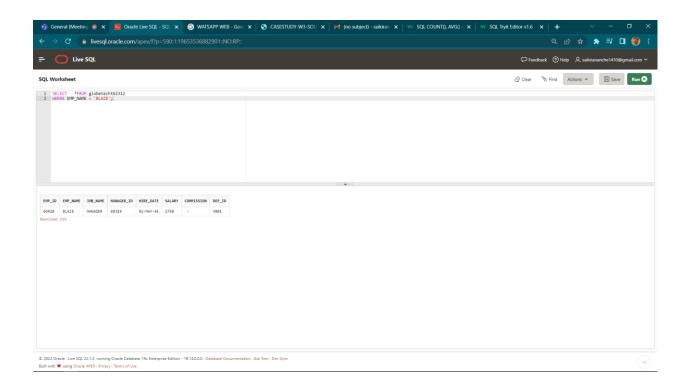
SELECT AVG(SALARY) FROM globetechtb2312 WHERE JOB_NAME = 'ANALYST';



CASE 14

From the following table, write a SQL query to find the details of the employee 'BLAZE'

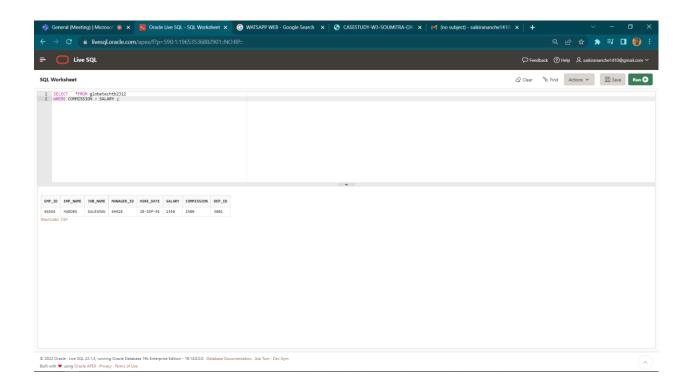
SELECT *FROM globetechtb2312 WHERE EMP_NAME = 'BLAZE';



 $\underline{\textbf{CASE15}}$ From the following table, write a SQL query to find those employees whose commission is more than their salary. Return complete information about the employees

SOLUTION

SELECT *FROM globetechtb2312 WHERE COMMISSION > SALARY; **OUTPUT:**



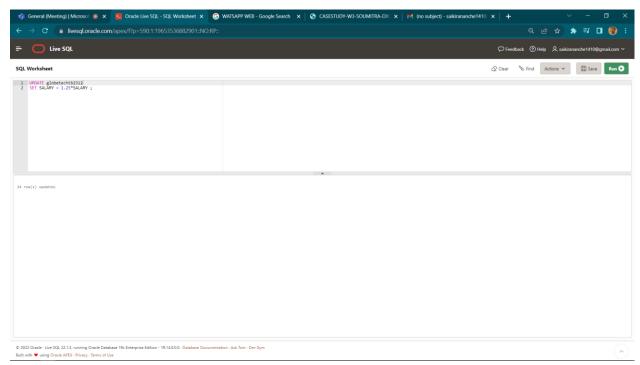
CASE16

From the following table, write a SQL query to find those employees whose salary exceeds 3000 after giving 25% increment.Return complete information about the employees.

SOLUTION:

UPDATE globetechtb2312 SET SALARY = 1.25*SALARY;

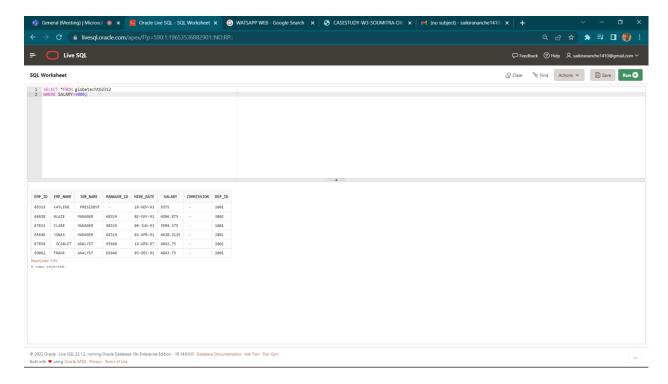
OUTPUT:



STEP 2;

SELECT *FROM globetechtb2312

WHERE SALARY>3000;

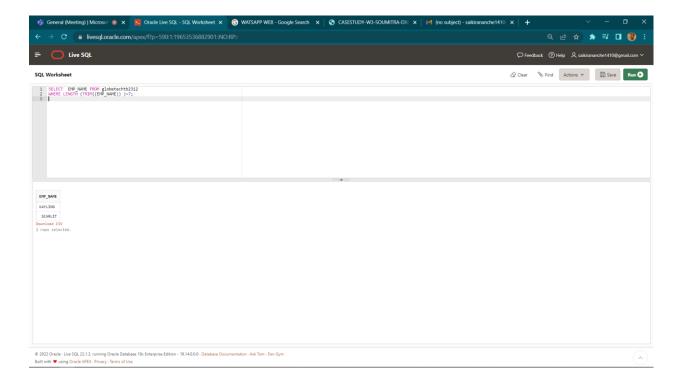


CASE17:

From the following table, write a SQL query to find the names of the employees whose length is six.Return employee name.

SOLUTION:

SELECT EMP_NAME FROM globetechtb2312 WHERE LENGTH (TRIM((EMP_NAME)))=7; OUTPUT:



CASE18:

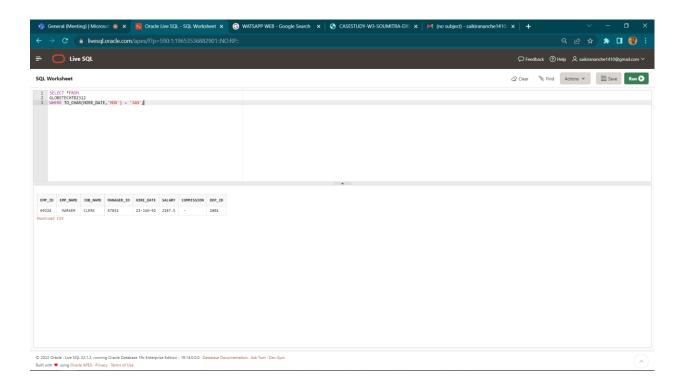
From the following table, write a SQL query to find those employees who joined in the month January.

Return complete information about the employees

SOLUTION:

SELECT *FROM GLOBETECHTB2312

WHERE TO_CHAR(HIRE_DATE,'MON') = 'JAN';

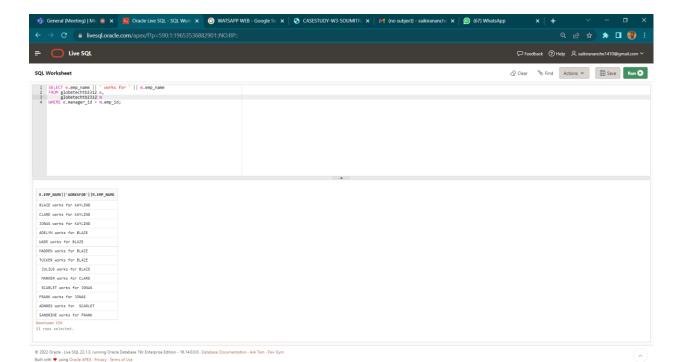


CASE 19:

From the following table, write a SQL query to find the name of employees and their manager separated by the string 'works for'.

SOLUTION:

SELECT e.emp_name || ' works for ' || m.emp_name FROM globetechtb2312 e, globetechtb2312 m WHERE e.manager_id = m.emp_id; OUTPUT:



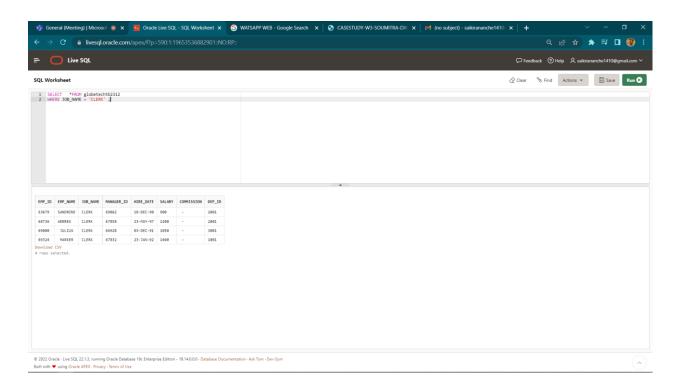
CASE20:

From the following table, write a SQL query to find those employees whose designation is 'CLERK'.

Return complete information about the employees.

SOLUTION:

SELECT *FROM globetechtb2312 WHERE JOB_NAME = 'CLERK';



RESULT

All the test cases have been solved and presented successfully in the present document.

CONCLUSIONS

All the case studies have been solved successfully with all the concepts that have been covered in the training session. It's really a great experience of learning while solving the cases. This case study gave me immense confidence regarding my ability to upskill in new technologies.

REFERENCES

• https://www.w3schools.com/sql/sql_count_avg_sum.asp