Assignment 1

**HR Database Exercise:** -(Answers)

SELECT \* FROM hr.countries;

SELECT \* FROM hr.departments;

SELECT \* FROM hr.employees;

SELECT \* FROM hr.job\_history;

SELECT \* FROM hr.jobs;

SELECT \* FROM hr.locations;

SELECT \* FROM hr.regions;

use hr;

#Que\_1\_=============================================================================================

SELECT first\_name "First Name", last\_name "Last Name" FROM employees;

#Que\_2\_=============================================================================================

SELECT DISTINCT department\_id FROM employees;

#Que\_3\_=============================================================================================

SELECT \* FROM employees ORDER BY first\_name DESC;

#Que\_4\_=============================================================================================

SELECT first\_name, last\_name, salary, salary\*.15 PF FROM employees;

#Que\_5\_=============================================================================================

SELECT employee\_id, first\_name, last\_name, salary FROM employees ORDER BY salary;

#Que\_6\_=============================================================================================

SELECT SUM(salary) FROM employees;

#Que\_7\_=============================================================================================

SELECT MAX(salary), MIN(salary) FROM employees;

#Que\_8\_=============================================================================================

SELECT AVG(salary), COUNT(\*) FROM employees;

#Que\_9\_=============================================================================================

SELECT COUNT(\*) FROM employees;

#Que\_10\_=============================================================================================

SELECT COUNT(DISTINCT job\_id) FROM employees;

#Que\_11\_=============================================================================================

SELECT UPPER(first\_name) FROM employees;

#Que\_12\_=============================================================================================

SELECT SUBSTRING(first\_name,1,3) FROM employees;

#Que\_13\_=============================================================================================

SELECT TRIM(first\_name) FROM employees;

#Que\_14\_=============================================================================================

SELECT first\_name,last\_name, LENGTH(first\_name)+LENGTH(last\_name) 'Length of Names'

FROM employees;

#Que\_15\_=============================================================================================

SELECT \* FROM employees WHERE first\_name REGEXP '[0-9]';

#Que\_16\_=============================================================================================

SELECT first\_name, last\_name, salary FROM employees WHERE salary NOT BETWEEN 10000 AND 15000;

#Que\_17\_=============================================================================================

SELECT first\_name, last\_name, department\_id FROM employees WHERE department\_id IN (30, 100)

ORDER BY department\_id ASC;

#Que\_18\_=============================================================================================

SELECT first\_name, last\_name, salary, department\_id FROM employees

WHERE salary NOT BETWEEN 10000 AND 15000 AND department\_id IN (30, 100);

#Que\_19\_=============================================================================================

SELECT first\_name, last\_name, hire\_date FROM employees WHERE YEAR(hire\_date) LIKE '1987%';

#Que\_20\_=============================================================================================

SELECT first\_name FROM employees WHERE first\_name LIKE '%b%' AND first\_name LIKE '%c%';

#Que\_21\_=============================================================================================

SELECT last\_name, job\_id, salary FROM employees

WHERE job\_id IN ('IT\_PROG', 'SH\_CLERK') AND salary NOT IN (4500,10000, 15000);

#Que\_22\_=============================================================================================

SELECT last\_name FROM employees WHERE last\_name LIKE '\_\_\_\_\_\_';

#Que\_23\_=============================================================================================

SELECT last\_name FROM employees WHERE last\_name LIKE '\_\_e%';

#Que\_24\_=============================================================================================

SELECT job\_id, GROUP\_CONCAT(employee\_id, ' ') 'Employees ID' FROM employees GROUP BY job\_id;

#Que\_25\_=============================================================================================

UPDATE employees SET phone\_number = REPLACE(phone\_number, '124', '999') WHERE phone\_number LIKE '%124%';

#Que\_26\_=============================================================================================

SELECT \* FROM employees WHERE LENGTH(first\_name) >= 8;

#Que\_27\_=============================================================================================

UPDATE employees SET email = CONCAT(email, '@example.com');

#Que\_28\_=============================================================================================

SELECT RIGHT(phone\_number, 4) as 'Ph.No.' FROM employees;

#Que\_29\_=============================================================================================

SELECT location\_id, street\_address,

SUBSTRING\_INDEX(REPLACE(REPLACE(REPLACE(street\_address,',',' '),')',' '),'(',' '),' ',-1)

AS 'Last--word-of-street\_address' FROM locations;

#Que\_30\_=============================================================================================

SELECT \* FROM locations WHERE LENGTH(street\_address) <= (SELECT MIN(LENGTH(street\_address))

FROM locations);

#Que\_31\_=============================================================================================

SELECT job\_title, SUBSTR(job\_title,1, INSTR(job\_title, ' ')-1) FROM jobs;

#Que\_32\_=============================================================================================

SELECT first\_name, last\_name FROM employees WHERE INSTR(last\_name,'C') > 2;

#Que\_33\_=============================================================================================

SELECT first\_name "Name",LENGTH(first\_name) "Length"

FROM employees WHERE first\_name LIKE 'J%' OR first\_name LIKE 'M%' OR first\_name LIKE 'A%'

ORDER BY first\_name ;

#Que\_34\_=============================================================================================

SELECT first\_name,LPAD(salary, 10, '$') SALARY FROM employees;

#Que\_35\_=============================================================================================

SELECT left(first\_name, 8),

REPEAT('$', FLOOR(salary/1000))

'SALARY($)',salary

FROM employees

ORDER BY salary DESC;

#Que\_36\_=============================================================================================

SELECT employee\_id,first\_name,last\_name,hire\_date

FROM employees

WHERE POSITION("07" IN DATE\_FORMAT(hire\_date, '%d %m %Y'))>0;

**Northwind Database Exercise:** -(Answers)

use northwind;

SELECT \* FROM northwind.categories;

SELECT \* FROM northwind.customers;

SELECT \* FROM northwind.employees;

SELECT \* FROM northwind.order details;

SELECT \* FROM northwind.orders;

SELECT \* FROM northwind.products;

SELECT \* FROM northwind.shippers;

SELECT \* FROM northwind.suppliers;

#Que\_1\_=============================================================================================

SELECT ProductName, QuantityPerUnit

FROM Products;

#Que\_2\_=============================================================================================

SELECT ProductID, ProductName

FROM Products;

#Que\_3\_=============================================================================================

SELECT ProductID, ProductName

FROM Products

WHERE Discontinued = 1;

#Que\_4\_=============================================================================================

SELECT ProductName, UnitPrice

FROM Products

ORDER BY UnitPrice DESC;

#Que\_5\_=============================================================================================

SELECT ProductID, ProductName, UnitPrice

FROM Products

WHERE (((UnitPrice)<20) AND ((Discontinued)=False))

ORDER BY UnitPrice DESC;

#Que\_6\_=============================================================================================

SELECT ProductName, UnitPrice

FROM Products

WHERE (((UnitPrice)>=15 And (UnitPrice)<=25)

AND ((Products.Discontinued)=False))

ORDER BY Products.UnitPrice DESC;

#Que\_7\_=============================================================================================

SELECT DISTINCT ProductName, UnitPrice

FROM Products

WHERE UnitPrice > (SELECT avg(UnitPrice) FROM Products)

ORDER BY UnitPrice;

#Que\_8\_=============================================================================================

SELECT DISTINCT ProductName as Twenty\_Most\_Expensive\_Products, UnitPrice

FROM Products AS a

WHERE 20 >= (SELECT COUNT(DISTINCT UnitPrice)

FROM Products AS b

WHERE b.UnitPrice >= a.UnitPrice)

ORDER BY UnitPrice desc;

#Que\_9\_=============================================================================================

SELECT Count(ProductName)

FROM Products

GROUP BY Discontinued;

#Que\_10\_=============================================================================================

SELECT ProductName, UnitsOnOrder , UnitsInStock

FROM Products

WHERE (((Discontinued)=False) AND ((UnitsInStock)<UnitsOnOrder));