**Assignment#3**

1. In AWS RDS, create an MySQL database instance (Free tier), following the recording provided in Week3. (Set the inbound IP address to 0.0.0.0, which make it accessible from anywhere) — attach a screenshot.

Graphical user interface, application

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1. In AWS Cloud9, create an environment (Free tier instance, with Ubuntu 18.04 system), following the recording provided in Week 3. —attach a screenshot.

Graphical user interface, text

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1. Connect the database instance in AWS RDS from Cloud9 environment, following the recording provided in Week 3. — attach a screenshot

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1. After you connect to the MySQL database on RDS, create a database named hrdb (using SQL statement), use SQL statement to show databases. — attach a screenshot.

Graphical user interface, text

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1. Create tables and load data into those tables using the “hrdb.sql” I provided in D2L, then use SQL statement to show tables. — attach a screenshot Hint: in mysql shell, “use hrdb;” “source hrdb.sql;”

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6. Answer the following questions with SQL statements, and attach screenshots. (You need to provide SQL statements and screenshots of the results / part of the results) — use employees table.

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

SELECT DISTINCT DEPARTMENT\_ID from employees;

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

SELECT \* from employees order by FIRST\_NAME desc;

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3. Write a query to get the names (first\_name, last\_name), salary, PF of all the employees (PF is calculated as 15% of salary).

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Description automatically generated SELECT FIRST\_NAME,LAST\_NAME,SALARY,SALARY\*0.15 as PF FROM employees;

4. Write a query to get the total salaries payable to employees.

SELECT sum(SALARY) as payabaleSalaries from employees;

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1. Write a query to get the number of employees working with the company.

SELECT count(\*) from employees;

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1. Write a query to display the name (first\_name, last\_name) and department ID of all employees in departments 30 or 100 in ascending order.

SELECT FIRST\_NAME,LAST\_NAME,DEPARTMENT\_ID from employees where DEPARTMENT\_ID=30 or DEPARTMENT\_ID=100 order by FIRST\_NAME asc;

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1. Write a query to display the name (first\_name, last\_name) and hire date for all employees who were hired in 1987.

SELECT FIRST\_NAME,LAST\_NAME,HIRE\_DATE from employees where year(HIRE\_DATE)=1987;

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1. Write a query to display the last name of employees having ’e’ as the third character.

SELECT LAST\_NAME from employees where LAST\_NAME like '\_\_e';

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1. Write a query to get the maximum salary of an employee working as a Programmer.

SELECT MAX(SALARY) from employees where JOB\_ID='IT\_PROG';

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1. Write a query to get the average salary and number of employees working the department 90.

SELECT AVG(SALARY), COUNT(\*) from employees where DEPARTMENT\_ID=90;

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