

## **Answer Script**

### Question No. 01

1. Create the employee table without constraints

### Answer No. 01

```
CREATE DATABASE mid_xm;
```

```
USE mid_xm;
```

```
CREATE TABLE employees(  
    employee_id INT,  
    first_name VARCHAR(30),  
    last_name VARCHAR(30),  
    email VARCHAR(50),  
    phone_number CHAR(11),  
    hire_date DATE,  
    job_id INT,  
    salary DECIMAL(10,2)  
);
```

### Question No. 02

2. Create the employee table with proper constraints

### Answer No. 02

```
CREATE TABLE employees(  
    employee_id INT PRIMARY KEY,  
    first_name VARCHAR(30) NOT NULL,  
    last_name VARCHAR(30) NOT NULL,  
    email VARCHAR(50) NOT NULL UNIQUE,  
    phone_number CHAR(11) NOT NULL,  
    hire_date DATE DEFAULT(CURRENT_DATE()),  
    job_id INT,  
    salary DECIMAL(10,2) NOT NULL  
);
```

Question No. 03

3. Show all of employee table

Answer No. 03

```
USE hr;  
SELECT *  
FROM employees;
```

Question No. 04

4. Show the first names and salaries of employee who has last name "king"

Answer No. 04

```
SELECT first_name, salary  
FROM employees  
WHERE last_name="king";
```

Question No. 05

5. Show the first names and last names of the employees who has salary greater than 2000

Answer No. 05

```
SELECT first_name, last_name  
FROM employees  
WHERE salary > 2000;
```

Question No. 06

6. Show the employee names and salaries who earns more than average salary.

Answer No. 06

```
SELECT first_name, salary  
FROM employees  
WHERE salary > (SELECT AVG(salary) FROM employees);
```

Question No. 07
7. Group the employees using job id and show the average and max salary of each job id.
Answer No. 07
<pre>SELECT job_id, AVG(salary) as average_salary, MAX(salary) as max_salary FROM employees GROUP BY job_id;</pre>

Question No. 08
8. Sort the employee table ascending order according to salary and show 5th to 10th rows
Answer No. 08
<pre>SELECT * FROM employees ORDER BY salary ASC LIMIT 6 OFFSET 4;</pre>

Question No. 09
9. Count the employees and total salary
Answer No. 09
<pre>SELECT COUNT(*) as total_employees, SUM(salary) as salary FROM employees;</pre>

## Question No. 10

10. Draw an ERD of the HR database

Answer No. 10

