# **Answer Script**

## **Question No. 01**

Employees Table has the following columns

- a. employee\_id
- b. first\_name
- c. last name
- d. email
- e. phone\_number
- f. hire\_date
- g. job\_id
- h. salary

Ans the following questions according to this.

1. Create the employee table without constraints

## **Answer No. 01**

```
CREATE table employees(
    employee_id INT,
    first_name VARCHAR(30),
    last_name VARCHAR(30),
    email VARCHAR(30),
    phone_number INT,
    hire_date DATE,
    job_id VARCHAR(30),
    salary FLOAT
);
```

## **Question No. 02**

Create the employee table with proper constraints

### Answer No. 02

```
CREATE TABLE employees(
    employee_id INT(11) UNSIGNED NOT NULL,
    first_name VARCHAR(30),
    last_name VARCHAR(30) NOT NULL,
    email VARCHAR(30) NOT NULL,
    phone_number INT UNIQUE,
    hire_date DATE NOT NULL,
    job_id VARCHAR(30) NOT NULL,
    salary FLOAT NOT NULL,
    PRIMARY KEY (employee_id)
).
```

#### **Question No. 03**

Show all of employee table

#### Answer No. 03

SELECT \*

FROM employees;

#### Question No. 04

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**

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**

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

#### Answer No. 06

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

## **Question No. 07**

Group the employees using job id and show the average and max salary of each job id.

## Answer No. 07

SELECT job\_id, AVG(salary) AS avg\_salary, MAX(salary) AS max\_salary FROM employees GROUP BY job\_id;

#### **Question No. 08**

Sort the employee table ascending order according to salary and show 5th to 10th rows

## Answer No. 08

SELECT \*
FROM employees
ORDER BY salary ASC
LIMIT 6 OFFSET 4;

#### **Question No. 09**

Count the employees and total salary

#### Answer No. 09

SELECT COUNT(employee\_id) AS count\_employees, SUM(salary) AS total\_salary

FROM employees;

# **Question No. 10** Draw an ERD of the HR database **Answer No. 10** regions countries Locations region\_id (PK) region\_name country\_id (PK) country\_name region\_id (FK) location\_id (PK) street\_address postal\_code city state\_province departments country\_id (FK) department\_id (PK) department\_name manager\_id (FK) location\_id (FK) jobs job\_id (PK) job\_title min\_salary max\_salary employees employee\_id (PK) first\_name last\_name job\_history email phone\_number start\_date hire\_date job\_id (FK) end\_date job\_id (FK) department\_id (FK) employee\_id (FK) salary commission\_pct manager\_id (FK) department\_id (FK)