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