Answer Script

Question No. 01

Create the employees table without constraints

Answer No. 01

```
CREATE DATABASE exam;
use exam;
create table employees(
        employee_id INT,
    first_name VARCHAR(10),
    last_name VARCHAR(10),
    email VARCHAR(10),
    phone_number CHAR(11),
    hire_date DATETIME,
    job_id INT,
    salary INT
);
```

Question No. 02

Create the employees table with proper constraints

Answer No. 02

```
CREATE DATABASE exam;
use exam;
create table employees(
        employee_id INT PRIMARY KEY,
first_name VARCHAR(10) NOT NULL,
last_name VARCHAR(10) NOT NULL,
email VARCHAR(10) UNIQUE,
phone_number CHAR(11) NOT NULL,
hire_date DATETIME NOT NULL,
job_id INT NOT NULL UNIQUE,
salary INT NOT NULL
);
```

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| O | ues | tion | 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

USE hr;

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

USE hr;

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

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, MAX(salary), AVG(salary) FROM employees GROUP BY job_id;

Question No. 08

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

Answer No. 08

Question No. 09

Count the employees and total salary

Answer No. 09

SELECT COUNT(job_id), SUM(salary) AS TOTAL_SALARY FROM employees

Question No. 10 Draw an ERD of the HR database Answer No. 10 **Entity Relationship Diagram** regions locations countries region_id (PK) region_name location_id (PK) street_address postal_code country_id (PK) country_name region_id (FK) City state_province country_id (FK) departments job_history department_id (PK) department_name manager_id (PK) location_id (FK) employee_id (FK) start_date end_date job_id (FK) department_id (FK) employees employee_id (PK) first_name last_name email phone_number hire_date job_id (FK) salary commission_pct manager_id (FK) department_id (FK) jobs job_id (PK) job_title min_salary max_salary