**BÀI THI GIỮA KỲ**

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| **Thông tin** | |
| **Họ và tên** | **Trần Gia Khánh** |
| **MSSV** | **23021599** |
| **Mã đề** | **1** |
| **Bài làm** | |
| **Bài 1**   * **Code ALTER table offices**   **ADD COLUMN manager INT(11) NOT NULL FIRST;**  **ALTER TABLE employees**  **ADD CONSTRAINT UNIQUE (employeeNumber);**  **//fix loi**  **SELECT manager**  **FROM offices**  **WHERE manager NOT IN (SELECT employeeNumber FROM employees);**  **UPDATE offices**  **SET manager = (SELECT MIN(employeeNumber) FROM employees)**  **WHERE manager NOT IN (SELECT employeeNumber FROM employees);**  **ALTER TABLE offices**  **ADD CONSTRAINT fk\_manager**  **FOREIGN KEY (manager) REFERENCES employees(employeeNumber)**  **ON DELETE CASCADE ON UPDATE CASCADE;**   * **Kết quả (Ảnh chụp toàn màn hình):** | |
| **Bài 2**   * **Code:**   **SELECT \* FROM customers WHERE country = "USA" AND creditLimit > 85000;**  **SELECT \* FROM customers WHERE country = "France" AND creditLimit > 100000;**   * **Kết quả (Ảnh chụp toàn màn hình):** | |
| **Bài 3**   * **Code**   **(SELECT employeeNumber, firstName, lastName, extension, officeCode**  **FROM employees**  **WHERE officeCode = "1" AND extension LIKE '%1' ORDER BY firstName ASC)**  **UNION**  **(SELECT employeeNumber, firstName, lastName, extension, officeCode**  **FROM employees**  **WHERE officeCode = "4" AND firstName LIKE 'G%') ORDER BY lastName DESC;**   * **Kết quả (Ảnh chụp toàn màn hình):** | |
| **Bài 4**   * **Code**   **select concat(firstName," ",lastName,"|",email,"|","0392 ",substring(extension, 2,4)) as fullname from employees**  **where substring(jobTitle, 1, 5) = "Sales" or substring(jobTitle, 4, 5) = "Sales";**   * **Kết quả (Ảnh chụp toàn màn hình):** | |
| **Bài 5**   * **Code**   **SELECT salesRepEmployeeNumber, COUNT(customerNumber) AS customerCount FROM customers GROUP BY salesRepEmployeeNumber HAVING customerCount BETWEEN 5 AND 7 ORDER BY salesRepEmployeeNumber ASC;**   * **Kết quả (Ảnh chụp toàn màn hình):** | |
| **Bài 6**   * **Code**   **SELECT reportsTo AS managerEmployeeNumber, COUNT(employeeNumber) AS reportCount FROM employees WHERE reportsTo IS NOT NULL**  **GROUP BY reportsTo**  **ORDER BY reportCount DESC**  **LIMIT 3;**   * **Kết quả (Ảnh chụp toàn màn hình):** | |