**TRƯỜNG ĐẠI HỌC GIAO THÔNG VẬN TẢI**

**KHOA CÔNG NGHỆ THÔNG TIN**

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BÀI TẬP LỚN

**THIẾT KẾ CƠ SỞ DỮ LIỆU**

**ĐỀ TÀI: QUẢN LÝ KHÂU ORDER TRÀ SỮA**

Giảng viên hướng dẫn: cô Nguyễn Kim Sao

Sinh viên thực hiện: Bùi Tiến Bắc (1812)

Nguyễn Đức Phú (181201867)

Lê Quang Thọ (181202289)

**Chương I: KHẢO SÁT**

1. KHẢO SÁT VÀ ĐẶC TẢ QUÁ TRINHG NGHIỆP VỤ
2. Địa điểm khảo sát.

Địa chỉ: 60 Hồ Tùng Mậu – Hà Nội

Hotline: 1900 636 936

1. Phỏng vấn.
2. Người phỏng vấn:………………..
3. Nội dung phỏng vấn:

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| **Câu Hỏi** | **Trả Lời** |
| 1. Menu đồ uống của quán có đa dang và phong phú để đáp ứng nhu cầu của khách hàng không ? | Có. Ngoài phục vụ các loại đồ uống như:Trà sữa, trà hoa quả, topping đi kèm trong cốc trà sữa các loại theo nhu cầu khách hàng.Vì vậy chúng tôi tin rằng đủ sức đáp ứng tất cả nhu cầu của khách. |
| 2. Dữ liệu của quán về thu về sẽ được lưu ở đâu và sẽ được kiểm tra vào thời gian nào? | Mọi sổ sách của quán chúng tôi sẽ được lưu tại một máy tính riêng và hàng tháng chủ quán sẽ kiểm tra và yêu cầu tôi lập báo cáo tổng kết. |
| 3. Với 1 số lượng khách lớn cùng vào quán 1 lúc thì chất lựong phục vụ có bị ảnh hưởng hay là không ? | Tất nhiên là có ! Khách đông đồng nghĩa với việc bộ phận phục vụ phải dải đều ra , dẫn đến tình trạng khách phải chờ đợi ! Chúng tôi chân thành xin lỗi về điều đó.Nhưng khách cũng hiểu và thông cảm cho cửa hàng và không phàn nàn gì . |
| 4. Trong quá trình thanh toán hóa đơn có được dữ lại hay không? | Có ,tất cả các hóa đơn sẽ được dữ để sau khi hết ca làm việc chúng tôi sẽ tổng kết và đối chiếu doanh thu bán được trong một ngày và để đối chiếu khi xảy ra những sai sót của máy hay nhân viên. |
| 5. Trong quá trình thanh toán hóa đơn có được dữ lại hay không? | Có ,tất cả các hóa đơn sẽ được dữ để sau khi hết ca làm việc chúng tôi sẽ tổng kết và đối chiếu doanh thu bán được trong một ngày và để đối chiếu khi xảy ra những sai sót của máy hay nhân viên. |

1. Mô tả bài toán.

Chương trình xây dựng nhầm phục vụ chức năng nghiệp vụ cho cửa hàng bán trà sữa ToCoToCo.

1. Quản lý danh mục.

Quản lý nhân viên

* Mỗi nhân viên sẽ có các thông tin: mã nhân viên, họ tên nhân viên, ngày sinh, giới tính, địa chỉ, điện thoại, mã đăng nhập.
* Trong quản lý nhân viên sẽ có các chức năng như cập nhật, chỉnh sửa thông tin và tìm kiếm nhân viên.

Quản lý thông tin khách hàng

* Mỗi khách hàng sẽ có các thông tin: mã khách hàng, giới tính, tên khách hàng, liên hệ.
* Trong quản lý khách hàng sẽ có các chức năng như cập nhật chỉnh sửa thông tin, tìm kiếm khách hàng.

Quản lý hóa đơn

Trong mỗi hóa đơn sẽ các thông tin: mã hóa đơn, ngày bán, tổng tiền, mã khách hàng, mã giảm giá, mã nhân viên bán.

Trong quản lý hóa đơn sẽ có các chức năng như cập nhật, tìm kiếm và lọc hóa đơn.

1. Quản lý lý bán hàng.

* Nhận yêu cầu từ khách hàng
* Nhân viên xác định các yêu cầu từ khách hàng như: số sản phẩm, yêu cầu từng sản phầm … để thực hiện yêu cầu từ khách và lưu lại thông tin khách hàng và hóa đơn.
* Lập hóa đơn
* Nhân viên ghi hóa đơn bán cho khách hàng, kèm theo các chương trình ưu đãi (nếu có) và khách hàng xác nhận các sản phẩm.
* Kiểm tra sản phẩm
* Nhân viên sẽ kiểm tra thông tin sản phẩm, xem có đúng với yêu cầu của khách hàng không.
* Thanh toán
* Khách hàng trả tiền tại quầy do nhân viên thu. Khách hàng có thể thanh toán qua thẻ hoặc dùng tiền mặt

1. Các báo cáo có liên quan.

* Khách hàng phải trả ngay tiền mặt hoặc qua thẻ. Nhân viên nhận tiền từ khách hàng theo đúng số tiền ghi trên hóa đơn.

1. Hình ảnh từ shop.

![Ảnh có chứa văn bản

Mô tả được tạo tự động](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDqRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAYAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIwOjExOjExIDIyOjI2OjMzAAAB6hwABwAACAwAAAjUAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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SkpKSvmHmnsnunug8l/MVDYmAjVBjN4CBKlSonCSr4qBA4qYiRlH1OQdy1iAcRu2LcxjTTBLy7lv3EZTgrLhaPFks5Vq8ShEMQI47gbiV6A/M6UjvJ4h/EC2n4gW5HYYA3J3r9ztwtgeT9Ieb+p/rIP14oeP/ALMG/wC+X/8AbP8A7ODP+SdH90T4/uVev7l44T3zPuYwnzE+ZSAQWcB7oeae+e+MjA+WPl4fbPbBjJLLx34D8y8tPZDyT2T2cAVRi0vFe57eMzG5eBMpUqJKgiRJUqVKlcVLBlPM6o/tB8JY8DcHhnEHMEbCviBlMHhZd83Lity+ANsG5lmJV9SsSyviUlHqMSTJ8ESiGV6Y+0F5YJ7hY5T3o+VMiA5uIDNcAd40bxW3CVTj2FG7H7oaX90/9KP/AN2Va/fP/dn/ALMQf+eEk4zjzOD7MTn/AEBwkev6iLVf1DqP1DwP1DwP1KOv6npfqeh+o+B+o+H+o36/qC//ADKYf/PHn2e5wvfns8oDCeaTCziorgFlQLvPM4biB4D9EC/9Sf7Ano/pPU/RPX/Sf6wj/wCMi21+iM5aaFy6XHwPDFRikXhMpdnX8UGXNcLC7bZdy6g7lzvgrzMQDhKJkI8U9cAolcN888eGHujlVQSYloTFKTpMsivguSmgzE5MxNS5RZY9sFtmLLiIxZZLIJLJZMSzhcYAI2zzvhcWPFkBqUxuZ4zKZTLSmVwpCawL1AQMrK+IEjhBRUYFRS4CP+Q8MYxjxtBX8EJ+CN3DMqPFyhM8sozHMvwLiQQiuAlVHlYalcVAEzLLEKsylYnDMNyzxJAhiJogoI0LUrMzh2mO4JE1gS8zdiRKZXuVKjwKlSoErgkqURLgsDUEhCEolcKIkYCVElS0H8WolQCJmBKLhXiH1BMEuiBxipmHiZVEVuIz/wAZ+OJR1HgWOdiWXjyOplArhiRJSKiFxLEXshCpC7uFXjmrgSubrmlzAvPF1xZCVLO4DconpKzdl7UU4d7m7FilJdy+F4Hw7izPoQhi928ajwUlETg1FqXLi8HGGPDGGPkIpXARxlLJZz5AiHqKMS6QjmT/ABD4ggwrjCIMo43JksDT4ImIPLN8KRCUTHiMlKGyHRAVKuVVTqDL8wqUQBmI4lzSMOKgTCRFS6qLxeGJPJGncobgG5ujEI2gIS2LEwuWwWXM+ZXAOElEMyuNRzK4Wol5H4X8U+FSoEMcVLplz0jckxvtWVFQWBNEpWoccRP8Gc1Y8xj8PVM/6fHE4SojfGpUwgMqoxQxsXNxJV9QIlvCx4b4viwlkRdR4lq8asojHudZSYhQgQYNxjwmYmZceDgeDgONoXcIxJUfmCV8CHLzXBB6m3g3HLVxzmRDVsv7jRAlsXySkibiiKkT5hSlgo1NosUYIlcS38cFEeISpWY5mGCBKzGpkRhJjhUl6oKITHXwv4EeGA5OGPDilzOHDGWkYGVRmjHcYuC+4hgxhmEUQygw4VXGdx4rlil1fDxUInwqVykSvhUOoXULuDuWEtjpxRElaMB2zdUYj3K0JDDRFSwz8lRmKlLxKLGMEH7phf1BhCWbVKmInDKmSUxlQLjG8oJZCZ5tmeKglqpUpixg4qVVYiY4YkNsQ6ZUwJgYbV8RpgWLIboqjDcEYqNwYREBLCDNk1yw64eGIXKiSvgZUWsy+a+FQs4MwejhZ3wVOOJ0P5gUg6lnmBiGJV3ZCWxBu1GbKr4hQh4Y8P5Ut9wgNEZJVuVUUuXK5qPIASiUm0KYniVAlcK4UQJWZUDEouG8QJeEzAI1VHBumVlaxILJcpWsOeKCDYSpUqJLBMvJbJaFoCVKg+DqVKlfAVK4QqoECBKlSpUSHAMSiBcqljDpYqJd+k/SUATPoheIhEQjvEDaCJUaLUaWDLZz3K5vh4SD90O76wqXL41KuViBwrgEqBfFDERqAAhCCXcJTKYEqByC83KhwKZMzcHgkltkUXESOoFMzsQY8KpdxZfIQ4QzBFyxg3g2So/KsxiWRIncqVEgTFEx8AlRI6hZDNyos3GgJcIblYDP8yXo9UsOYj1AkYdIUhwkTqEQ1YrqEqOLni5ceGfzYW0qUTMSXnnUIw4YEWoMeFzCVBCVM3CEVSrmaOFx1CtwVh3BAjNNRm5mWoDdTCCyUnHGc4WMkFIJPSDBgpwC8aENQ6mCx74XLi/C4uJcuXHklSoHFQPgHMHgssjhKFlKnkpdFVqG8AWU6TOUnmlQgOmZuKtJLZqMKEy+F8sH7ZgVNJAWaJVym6lJTGDMLlzGA4rEyYEYkZigQsE7OXHFXAlXAlRiWxIjcouDgTheAlLHiPUcNwxdkYdRpH15aVAcl8KhDUuJYsjpFjxXBiy5fFzKMvggkM83L+CwYyyDcUPYFyrze/WIBBblXjK3LLgo4xBiQS6mcZZglMyMTYP8L+fKH8qBg4aIea4qUcI9RQ1EihLisqam5UJpdwQzPqVcI2lSpUCVmJyGokCJEneUcHGS8SG7JdZFpGXEGh/ER6ja4ngRDqergv4luL0S/cMU9RZqLi84lzjJGIwOGVMvwCocsvEY/C5ZCUDcBGe5d+1/ZjUKWXrYoyhCGwszw4RCphIYiGUtjigw/GyLBmf2wfaWAwHNPGo5iQERzKDBHUtg+eMQJULcK1CKlSpqVCuVR7cQw6glxY4iqCNzrM24iIiXqOvEZCMx2iIYvMdnBPrLZi/iXrCJhcEX8SjqLuMjLgKirqK8Rdai91GVnUtWuC5fxL8Ry8tLRctLy8QplX1EmZXBMqOwkC0qglaDhCXJUCojICCQ0Fy3Bil/MwWIm4TFNY/BeCfyIHD7hjCGmAzMvimM0yh4NiAQhjOIlVwggFhzcpGBcrgxLi8WM7wwLiZMxuSy14YBFg3SpQTLqViYjxEHURnE8CKdR8UfDGV1kNOp48yty68RDqL6jTVNwfHOQNanqmDU9Mq6no4hqJepQzUvDjWLGvUWJY6lE0YV4mFcApjpFbdD9sFR0QkBAHAAUMDeI7rHBIhthSRJyh2lzPuAmPgxc/yoF8GkKbIGIQxUrhCGE2lBvipXGTGLwkpEZk5h2eSjluPDK4O2JS7eGJGvilSyBcErllYggjKiRDxK4AiJW8EoHE3wIYyBg1DZij0qPimTUCJgQJLepSVW1lisoRDeIIgJwUTpGxKXGkFSpRc9QfwFykSjqZCJZmWcQ78UO4Jqp2JZFyCO2xxYr4Vfgqm4HH8qHb94AspKOElE7lF3UY3c1FhnhZcsgWxqHC1CDHOWEq0wJYSxzfA4Y8RLWAROFyHUAwSpUl7qPGy66vcIwZ7pRikslxL4EYRInNY54LGLqZRhOBIaiRoY1UJcIvFzKMpHAYLI3mVMETEqMBUGInJPu8/eIY7EU4hREArjVwzFw3Bu0gcYsXuIeFOXhXA5N/ZKcHSLCISHIuMYdwzeFYhMpnNY8QO3j94WjOcX1DHmETpliL48zvAqNgWGW41dQSNSi8Fqy8Uo7Us6o/aXcl9jP/imYquVZeFZDFBRCMEwjxMrUIAxLEH7Ia0m27iZZwvAGyU4GJByCXBUFkThaRIdcEaRbsuHNVGkYOaPCcH244pvGECMqYmwILZSwkSpeq4JBOmIYSpnJlLlq/BVSoypXFcSasuo3UGEVlsu4rLWVNsdxg4Wly5cWZl1wxhTFIK4OI3eJUqA3OxnfAEMNJZdwbj03KB+2Un1hhu8sFfuglzLbLh9/aMCJd+sKf5BiDM3IUOce2AB/GlmRxrcaOz8xehv2SmZTTsflnST6m2Zv1BuCDf6cRr+dhbX2JUqLOCVmcYjaH5lnctiiykCFGtxoxLuKionDdxsjFFuMczDB4kyy4zFRWZ7D/4mCpWYHoiq3wIxjEWHDlVALlWZrxS6ixOH4HAuNfThdnFzBWzFRIWLce+GMajCMKyj3Ll8E7G5d8BN7gGXAPeZy4S7nUaSPCXO4gy9u5oi/JE2lknWyXwyuED6YeSAhQpQrvVxGOwhESkrHwR8UfDFOo5MEZr+kS4w0fRLNiPAwQsfbcBKR3CYyyvfqbh6z4bmP+iQb8xaDGY9kOkPuY/8iN6jMWyWnDwBmVGu0WPBVqZoy+4oVKl17TaIzFZ6ipgrNv8AI3BAqlJCCSLSuWtLCI6ho6E0DEYL4iLLiBglz7RZ/9k=)

**Chương II: PHÂN TÍCH VÀ THIẾT KẾ**

1. SƠ ĐỒ PHÂN GIÃ CHỨC NĂNG.

Ảnh có chứa văn bản

Mô tả được tạo tự động

1. SƠ ĐỒ THỰC THỂ LIÊN KẾT.
2. **Xây dựng từ điển dữ liệu**

* Hóa đơn bán (hóa đơn thanh toán với khách hàng)

Gồm các thuộc tính: số hóa đơn, ngày lập hóa đơn, thời gian lập hóa đơn, thu ngân, thông tin sản phẩm,tiền giảm giá, tiền chiết khấu, tổng tiền

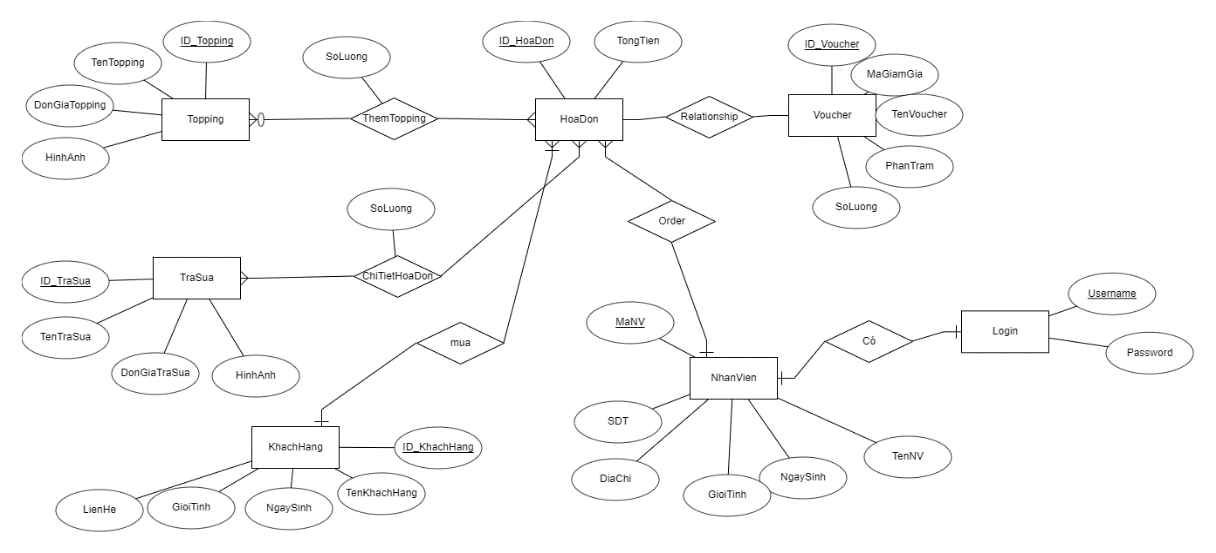
1. **Chính xác hóa thông tin**

* Hóa đơn bán (hóa đơn thanh toán với khách hàng): số hóa đơn, ngày lập hóa đơn, thời gian lập hóa đơn, thu ngân, thông tin sản phẩm,tiền giảm giá, tổng tiền

1. **Xác định thực thể, thuộc tính, định danh cho mỗi thực thể**

|  |  |
| --- | --- |
| **Thực Thể** | **Thuộc Tính** |
| HoaDon | * ID\_HoaDon * TongTien * ID\_KhachHang * ID\_Voucher * NgayBan * MaNV |
| ChiTietHoaDon | * SoLuong * ID\_HoaDon * ID\_TraSua |
| KhachHang | * ID\_KhachHang * GioiTinh * NgaySinh * TenKhachHang * LienHe |
| NhanVien | * MaNV * TenNV * DiaChi * GioiTinh * NgaySinh * SDT * ID\_DangNhap |
| TraSua | * ID\_TraSua * TenTraSua * DonGiaTraSua |
| Topping | * ID\_Topping * TenTopping * DonGiaTopping |
| ThemTopping | * ID\_Topping * TenTopping * DonGiaTopping |
| Voucher | * ID\_Voucher * MaGiamGia * TenVoucher * PhanTram * SoLuong |
| Login | * ID\_DangNhap * UserName * Password |

1. **Sơ đồ thực thể liên kết**



1. SƠ ĐỒ QUAN HỆ.
2. Chuẩn hóa và thu gọn sơ đồ

Dựa vào các bước chuẩn hóa ta chuẩn hóa được các thực thể sau.

* + - **ChiTietHoaDon** (SoLuong, ID\_HoaDon, ID\_TraSua)
    - **HoaDon** (ID\_HoaDon, TongTien, ID\_KhachHang, ID\_Voucher, NgayBan,MaNV)
    - **KhachHang** (ID\_KhachHang, GioiTinh, NgaySinh, TenKhachHang, LienHe)
    - **NhanVien** (MaNV, TenNV, DiaChi, GioiTinh, NgaySinh, SDT,ID\_DangNhap )
    - **ThemTopping** (SoLuong, ID\_Topping, ID\_HoaDon )
    - **Topping** (ID\_Topping, TenTopping, DonGiaTopping)
    - **TraSua** (ID\_TraSua, TenTraSua, DonGiaTraSua)
    - **Voucher** (ID\_Voucher, MaGiamGia, TenVoucher, PhanTram, SoLuong)
    - **Login(**ID\_DangNhap,UserName,Password**)**

1. Các bảng dữ liệu

* **ChiTietHoaDon** (SoLuong, ID\_HoaDon, ID\_TraSua)

**Ảnh có chứa văn bản

Mô tả được tạo tự động**

* **HoaDon** (ID\_HoaDon, TongTien, ID\_KhachHang, ID\_Voucher, NgayBan,MaNV)

Ảnh có chứa bàn

Mô tả được tạo tự động

* **KhachHang** (ID\_KhachHang, GioiTinh, NgaySinh, TenKhachHang, LienHe)

Ảnh có chứa bàn

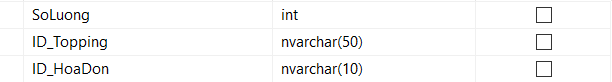
Mô tả được tạo tự động

* **NhanVien** (MaNV, TenNV, DiaChi, GioiTinh, NgaySinh, SDT,ID\_DangNhap )

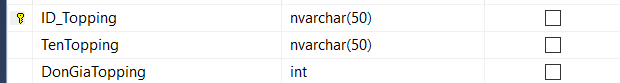
Ảnh có chứa bàn

Mô tả được tạo tự động

* **ThemTopping** (SoLuong, ID\_Topping, ID\_HoaDon )



* **Topping** (ID\_Topping, TenTopping, DonGiaTopping)



* **TraSua** (ID\_TraSua, TenTraSua, DonGiaTraSua)

Ảnh có chứa bàn

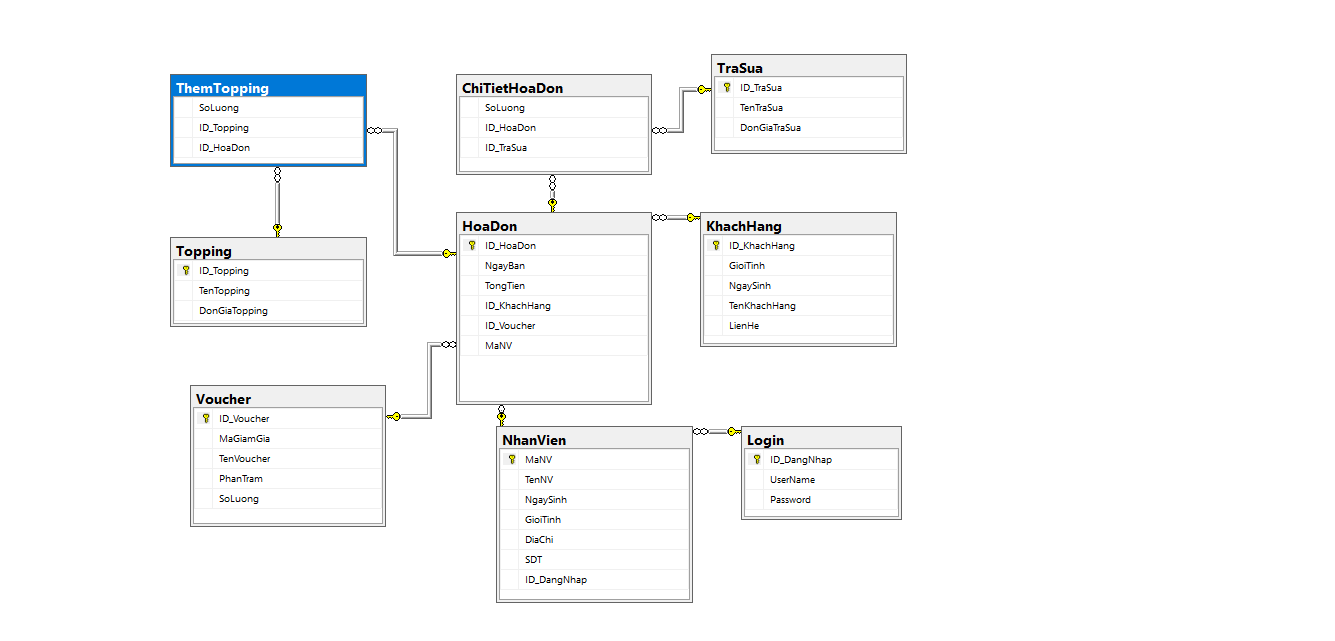
Mô tả được tạo tự động

* **Voucher** (ID\_Voucher, MaGiamGia, TenVoucher, PhanTram, SoLuong)

Ảnh có chứa bàn

Mô tả được tạo tự động

1. Mô hình quan hệ mức logic



**Chương III: XÂY DỰNG HỆ THỐNG CSDL TRÊN SQL SERVER 2019**

1.CÁC CÂU LỆNH TRUY VẤN

Câu1:Doanh thu thang 11.

create view Doanhthu11

as

select SUM(TongTien) as 'Doanh Thu' from HoaDon where MONTH(NgayBan)=11 AND YEAR(NgayBan)=YEAR(GETDATE())

Câu 2 :Liệt kê các sản phẩm có giá từ x đến y và sắp xếp theo thứ tự giá trị giảm dần.

create view Giatrixy

as

select \* from TraSua where DonGiaTraSua>=30000 and DonGiaTraSua<=60000

select \* from Giatrixy order by DonGiaTraSua desc

Câu 3 :Số lượng sản phẩm bán ra trong tháng.

create view SLBAN

as select SUM(SoLuong) as N'Số lượng sản phẩm' from ChiTietHoaDon,HoaDon where ChiTietHoaDon.ID\_HoaDon=HoaDon.ID\_HoaDon

and NgayBan=MONTH(GETDATE())

Câu 4 :Đưa ra 3 sản phẩm bán nhiều nhất trong tháng 11.

create view Top3 as

select top 3 sum(SoLuong) as 'Tong so ban',ID\_TraSua

from ChiTietHoaDon,HoaDon where ChiTietHoaDon.ID\_HoaDon=HoaDon.ID\_HoaDon and MONTH(NgayBan)=11

group by ID\_TraSua order by [Tong so ban] desc

2.CÁC CÂU LỆNH TRIGGER

Câu 1:Tự động cập nhật đơn giá cho bảng chitiethoadon vào bảng trà sữa.

create trigger autoDG on TraSua for insert,update

as

begin

declare @ID\_TraSua nvarchar(50),@dg int

select @ID\_TraSua=ID\_TraSua,@dg=DonGiaTraSua from inserted

update ChiTietHoaDon set ThanhTien = @dg\*SoLuong where ID\_TraSua = @ID\_TraSua

end

Câu 2: Tự động xoa hoa don cua khach hang khi xoa o bảng khach hang.

create trigger xoaKH on KhachHang for delete as

begin

declare @id\_kh nvarchar(10)

select @id\_kh=ID\_KhachHang from deleted

delete from HoaDon where ID\_KhachHang=@id\_kh

end

Câu 3: Tự động xóa chitiethoadon khi thực hiện xóa hóa đơn.

create trigger xoaHD on HoaDon instead of delete

as

begin

declare @ID\_HoaDon nvarchar(50)

select @ID\_HoaDon=ID\_HoaDon from deleted

delete from ChiTietHoaDon where ID\_HoaDon=@ID\_HoaDon

delete from HoaDon where ID\_HoaDon=@ID\_HoaDon

end

Câu 4: Kiểm tra mã khách hàng trong bảng hóa đơn nếu tồn tại điểm >10 và hóa đơn >1tr thì giảm 50%, ngược lại nếu ko tồn tại thì thông báo mã khách hàng chưa tồn tại.

create trigger KT on HoaDon for insert,update as

begin

declare @id\_HD nvarchar(10),@id\_KH nvarchar(10),@id\_vc nvarchar(10),@tt int

select @id\_HD=ID\_HoaDon,@id\_KH=ID\_KhachHang,@id\_vc=ID\_Voucher,@tt=TongTien from inserted

if(ISNULL(@id\_KH,0)!=0 and @tt>1000000 and (select Diem from KhachHang where ID\_KhachHang=@id\_KH)>10) update HoaDon set Giamgia = 50,TongTien=@tt\*50/100

end

3.CÁC THỦ TỤC

Câu 1: Nhập vào ngày tháng năm xuất ra doanh thu

alter proc a @ngay int, @thang int, @nam int , @doanhthu int output as

begin

select @doanhthu = sum(TongTien) from HoaDon where YEAR(NgayBan) = @nam and MONTH(NgayBan) = @thang and Day(NgayBan) = @ngay

end

declare @dt int

exec a '4','11','2020', @doanhth output

print @dt

Câu 2: Nhập vào mã nhân viên đầu ra là số lượng hóa đơn bán

go

create proc b @manv nvarchar(10), @sl int output as

begin

select COUNT(\*) from HoaDon where MaNV = @manv

end

go

declare @sl int

exec b 'NV01', @sl output

print @sl

go

Câu 3: Đầu vào là mã Voucher đầu ra là số lượng hóa đơn đã app dụng voucher

create proc c @id\_v nvarchar(10), @sl int output as

begin

select COUNT(\*) from HoaDon where ID\_Voucher = @id\_v

end

go

declare @sl int

exec c 'GF50', @sl output

print @sl

Câu 4: đầu vào là mã khách hàng đầu ra là tổng số hóa đơn

Go

create proc d @makh nvarchar(10), @sl int output as

begin

select COUNT(\*) from HoaDon where ID\_KhachHang = @makh

end

go

declare @sl int

exec d 'TA01', @sl output

print @sl

4.CÁC HÀM

Câu 1: Nhập vào 1 số đưa ra các sản phẩm có số lượng bán lớn hơn số đó

Go

create function a (@soluong int)

returns table

as

return(

select \* from

(select Top(1) sum(SoLuong) SLTS, TS.TenTraSua from ChiTietHoaDon CTHD inner join TraSua TS on

TS.ID\_TraSua = CTHD.ID\_TraSua

group by TS.TenTraSua order by SLTS DESC) as a ,

(select Top(1) sum(SoLuong) SLTP, TP.TenTopping from ThemTopping TTP inner join Topping TP on

TP.ID\_Topping = TTP.ID\_Topping

group by TP.TenTopping order by SLTP DESC) as b)

Câu 2: Tạo hàm kiểm tra đăng nhập

Go

create function f (@UserName nvarchar(50), @Password nvarchar(50))

returns bit as

begin

declare @k int, @ok bit

select @k = COUNT(\*) from Login where @UserName like UserName and @Password like Password

if (@k = 0 ) set @ok = 0

else set @ok = 1

return @ok

end

select dbo.f('LeQuangTho','123') as bool

Câu 3: Nhập vào mã khách hàng đưa ra danh sách hóa đơn trong năm hiện tại

Go

create function g (@makh nvarchar(50))

returns table

as

return(

select \* from HoaDon where @makh like ID\_KhachHang and YEAR(HoaDon.NgayBan) = YEAR(GETDATE())

)

Câu 4: Đầu vào là năm đầu ra là nhân viên sinh năm đó

Go

create function h (@nam int)

returns table

as

return(

select \* from NhanVien where @nam = YEAR(NgaySinh)

)

5.CÁC LỆNH NGÔN NGỮ ĐIỀU KHIỂN DỮ LIỆU

Câu 1: Tạo 1 tài khoản admin mật khẩu là "admin" cấp tất cả quyền cho người này

Câu 2: Tạo tài khoản của nhân viên bán hàng mật khẩu "123" chỉ insert bảng hoadon và chitiethoadon,

được quyền insert, update bảng khách hàng

exec sp\_addlogin

'admin','admin',btlcsdl

go

exec sp\_adduser

'admin','admin'

exec sp\_addlogin

'NhanVien','123',btlcsdl

go

exec sp\_adduser

'NhanVien','ThuNgan'

go

Grant all on ChiTietHoaDon to admin

go

Grant all on HoaDon to admin

go

Grant all on KhachHang to admin

go

Grant all on [Login] to admin

go

Grant all on NhanVien to admin

go

Grant all on ThemTopping to admin

go

Grant all on Topping to admin

go

Grant all on TraSua to admin

go

Grant all on Voucher to admin

go

Grant insert on HoaDon to thungan

go

Grant insert on ChiTietHoaDon to thungan

go

Grant select,insert,update on KhachHang to thungan

go

Grant select,insert,update on KhachHang to thungan

**Chương IV: XÂY DỰNG CHƯƠNG TRÌNH KẾT NỐI**