PATIENTS

Patient (patientNo, patName, patAddress, DOB)
Ward (wardNo, wardName, wardType, noOfBeds)
Contains (patientNo, wardNo, admissionDate)
Drug (drugNo, drugName, costPerUnit)
Prescribed (patientNo, drugNo, unitPersday, startDate, finishDate)

 List all patients details, alphabetically SELECT * FROM PATIENT ORDERBY PATIENTNAME

2. List the patient number and the patient name of all patients currently in the Surgical(wardName)

SELECT P.PATIENTNO, P.PATIENTNAME
FROM PATIENT P,CONTAINS C
WHERE P.PATIENTNO = C.PATIENTNO
AND C.WARDNO = (SELECT WARDNO FROM WARD
WHERE WARDNAME = 'SURGICAL')

 List all patients admitted after January 28,2008 SELECT * FROM PATIENTS P, CONTAINS C WHERE P.PATIENTNO = C.PATIENTNO AND C.ADMISSIONDATE > '28 JANUARY 2008'

4. Find the names of all the patients being prescribed a drug with name 'Drug112' SELECT P.PATNAME FROM PATIENT P, PRESCRIBED PR WHERE P.PATIENTNO = PR.PATIENTNO AND PR.DRUGNO = (SELECT DRUGNO FROM DRUG WHERE DRUGNAME = 'DRUG112')

5. What is the total cost per day of Drug112 supplied to a patient called john smith SELECT PR.UNITPERDAY * D.COSTPERUNIT FROM PR.PRESCRIBED, D DRUG WHERE PR.DRUGNO = D.DRUGNO

AND PR.PATIENTNO = (SELECT PATIENTNO FROM PATIENT

WHERE PATNAME = 'JOHN SMITH')

AND D.DRUGNO = (SELECT DRUGNO FROM DRUG

WHERE DRUGNAME = 'DRUG112')

 Max, min, average number of beds in ward SELECT MAX(noOfbeds) as maxNoOfBeds, Min(noOfBeds) as minNoOfBeds, Avg(noOfBeds) as averageNoOfBeds FROM WARD 7. List the patientsNo and names of all patients and the drugno and number of units of their medication. The list should also include the details of patients that are not prescribed any drugs.

SELECT P.PATIENTSNO, P.PATNAME, PR.DRUGNO,PR.UNITPERDAY FROM PATIENT P, PRESCRIBED PR WHERE P.PATIENTNO = PR.PATIENTNO GROUP BY P.PATIENTNO

CREDITCARD 1

User (userId, firstName, lastName, email, age)
CreditCard (cardNumber, userID, securityCode, expirationDate)
Item (itemId, name, description, pricePerUnit)
Order (orderId, userId, cardNumber, orderTotalAmount)
itemsInOrder (orderId, itemId, quantity)

- List all users who are greater than 50 years SELECT * FROM USERS WHERE AGE > 50
- 2. List all credit card information alon with the first and last name of the user

SELECT C.*, U.FIRSTNAME, U.LASTNAME FROM CREDITCARD C, USER U WHERE C.USERID = U.USERID

3. List all average pricePerUnit for all items

SELECT ITEMID, AVG(PRICEPERUNIT) FROM ITEM

4. List the orderid, ordertotalAmount, the name and description of the items in the order, along with the quantity of the item, sorted by userid and then by itemid.

SELECT O.ORDERID, O.ORDERTOTALAMOUNT, I.NAME, I.DESCRIPTION, IO.QUANTITY
FROM ORDER O, ITEM I, ITEMINORDER IO
WHERE O.ORDERID = IO.ORDERID
AND I.ITEMID = IO.ITEMID
ORDER BY O.USERID, I.ITEMID

5. List how many credicard each user has, along with their email. Only include users who have more than one credit card.

SELECT COUNT(C.CARDNUMBER) AS TOTALCREDITCARDS, U.EMAIL FROM CREDITCARD C, USER U GROUP BY C.EMAIL HAVING C.USERID = U.USERID AND COUNT(C.CARDNUMBER) > 1 List the userid and cardnumber of all orders, along with the email and age of the users. Include all the users who do not have any orders yet. They have user our telephone operators but have not yet placed any orders.

SELECT U.USERID, U.AGE, U.EMAIL, O.CARDNUMBER FROM USER U LEFT OUTER JOIN ORDER O ON O.USERID = U.USERID

7. List all users firstname and lastname who have the largest age. We may have many users who are the same oldest age. For example we may have three users who are 94 years old.

SELECT FIRSTNAME, LASTNAME, AGE ORDER BY AGE DESC

CREDITCARD 2

User (userId, firstName, lastName, email, age)
CreditCard (cardNumber, userID, securityCode, expirationDate)
Item (itemId, name, description, pricePerUnit)
Order (orderId, userId, cardNumber, orderTotalAmount)
itemsInOrder (orderId, itemId, quantity)

- List email of people which have an expired credit card, the email should be present once even if the user has more expired cards SELECT U.EMAIL FROM USER U, CREDITCARD C WHERE U.USERID = C.USERID AND C.EXPIRATIONDATE < GETDATE()

Product

Customers (CustomerId, CustomerName, ContactName, Address, City, PostalCode, Country)
Categories (CategoryId, cagtegoryName, Description)
Employees (EmployeeId, LastName, FirstName, BirthDatem Photo, Notes)
OrdersDetails (OrderDetailId, OrderId, ProductId, Quantity)
Orders (OrderId, CustomerId, EmployeeId, OrderDate, ShipperId)
Products (ProductId, ProductName, SupplierId, CategoryId, Unit, Price)
Shippers (ShipperId, ShipperName, Phoen)
Suppliers (SupplierId, SupplierName, ContactName,
Address, City, PostalCode, Country, Phone)

- Create Table OrderDetail
 Create table OrderDetails(OrderDetailId int not null,
 OrderId int, ProductId int, Quantity int,
 PrimaryKey(OrderDetailId)
 ForeignKey(OrderId) references Orders(OrderId),
 ForeignKey(ProductId) reference Products(ProductId))
- 2. Write a query that will return the productname, unit and price of the product that has sold most units ever. The units can be sold in multiple order. Your query should return one single record or more if equal SELECT PRODUCTNAME, UNIT, PRICE FROM PRODUCT WHERE PRODUCTID IN (SELECT PRODUCTID FROM ORDERDETAILS GROUP BY PRODUCTID HAVING SUM(QUANTITY) IN(SELECT TOP 1 SUM(QUANTITY) FROM ORDER ORDERDETAIL GROUP BY PRODUCTID ORDER BY SUM(QUANTITY) DESC)
- 3. Write a query that will return the shipper information of the shipper that shipped most number of orders. Return just one record or more if they are equal

SELECT * FROM SHIPPER

WHERE SHIPPERID IN (SELECT SHIPPERID FROM ORDERS GROUP BY SHIPPERID

HAVING COUNT(*) IN (SELECT TOP 1 COUNT(*)

FROM ORDER
GROUP BY SHIPPERID
ORDER BY COUNT(*) DESC

4. Write a query that will return the employee id, firstname and alstname of the employee which has brought in the most revenue. Revenue is the total money across all orders sold by an employee SELECT EMPLOYEEID, FIRSTNAME, LASTNAME FROM EMPLOYEE WHERE EMPLOYEEID IN (SELECT TOP 1 O.EMPLOYEEID FROM ORDERS.O, PRODUCTS P, ORDERDETAILS OD WHERE PR.PRODUCTID = OD.PRODUCTID AND O.ORDERID = OD.ORDERID

ORDER BY (PR.PRICE*OD.QUANTITY) DESC;