1. **(2 pts)** How many invoices are there?  **(3 pts)** List the invoice numbers and the invoice dates.

SELECT COUNT(\*) as no\_of\_invoices

FROM INVOICE;

SELECT INV\_NUMBER, INV\_DATE

FROM INVOICE;

1. **(2 pts)**How many customers are there? **(3 pts)** List the customer codes and customer names.

SELECT COUNT(\*) as no\_of\_customers

FROM CUSTOMER;

SELECT CUS\_CODE, CUS\_FNAME, CUS\_LNAME

FROM CUSTOMER;

1. **(2 pts)** List vendor numbers and vendor names.  **(3 pts)** Show the vendor count per state.

SELECT V\_CODE, V\_NAME

FROM VENDOR;

SELECT V\_STATE, COUNT(\*) as no\_of\_vendors

FROM VENDOR

GROUP BY 1;

1. **(2 pts)** Based on price, what is the most expensive product? **(3 pts)** How much quantity on hand is available for the most expensive product?

SELECT P\_DESCRIPT, P\_QOH

FROM PRODUCT

ORDER BY P\_PRICE DESC

LIMIT 1;

1. **(2 pts)** Write a query to count the number of customers with a customer balance over $500. **(3 pts)** List the customer code, customer name and balance amount of these customers.

SELECT COUNT(\*) as no\_of\_cus\_balance\_500

FROM CUSTOMER

WHERE CUS\_BALANCE > 500;

SELECT CUS\_CODE, CUS\_FNAME, CUS\_LNAME, CUS\_BALANCE

FROM CUSTOMER

WHERE CUS\_BALANCE > 500;

1. **(7 pts)** Generate a listing of products offered by each Vendor. List vendor name, product code and product name. Sort by vendor name and product code.

SELECT V\_NAME, P\_CODE, P\_DESCRIPT FROM

VENDOR v

LEFT JOIN PRODUCT as p

ON v.V\_CODE = p.V\_CODE

ORDER BY 1, 2;

1. **(7 pts)** Generate a listing of customer purchases, including the subtotals for each of the invoice line numbers; sort output by customer code, invoice number and the line\_number.

SELECT c.CUS\_CODE, i.INV\_NUMBER, LINE\_NUMBER, LINE\_PRICE\*LINE\_UNITS AS PURCHASES

FROM CUSTOMER c

JOIN INVOICE as i

ON c.CUS\_CODE = i.CUS\_CODE

LEFT JOIN LINE as l

ON i.INV\_NUMBER = l.INV\_NUMBER

ORDER BY 1, 2, 3;

1. **(7 pts)** List the balance characteristics of the customers who have made purchases during the current invoice cycle—that is, for the customers who appear in the INVOICE table; sort by customer code

SELECT CUS\_CODE, CUS\_FNAME, CUS\_LNAME, CUS\_BALANCE

FROM CUSTOMER

WHERE CUS\_CODE IN (SELECT DISTINCT CUS\_CODE FROM INVOICE)

ORDER BY 1 ASC;

1. **(7 pts)** Find a listing of customers who did not make purchases during the invoicing period; sort by customer code

SELECT CUS\_CODE, CUS\_FNAME, CUS\_LNAME

FROM CUSTOMER

WHERE CUS\_CODE NOT IN (SELECT DISTINCT CUS\_CODE FROM INVOICE)

ORDER BY 1 ASC;

1. **(7 pts)** Create a query to produce a summary of the value of products currently in inventor

SELECT SUM(P\_QOH\*P\_PRICE) as INVENTORY\_VALUE

FROM PRODUCT;