1. (5) Write a SELECT statement that shows invoice\_number and invoice\_total from the invoices table.

USE ap;

SELECT invoice\_number, invoice\_total

FROM invoices

Table, Excel

Description automatically generated

1. (5) Write a SELECT statement that shows invoice\_id and invoice\_total where the payment is made past the due date.

USE ap;

SELECT invoice\_id, invoice\_total

FROM invoices

WHERE payment\_date > invoice\_due\_date

Table

Description automatically generated

1. (5) Write a SELECT statement that shows invoice\_number, invoice\_data, and invoice\_total where the payment is made on August 2018.

USE ap;

SELECT invoice\_number, invoice\_date, invoice\_total

FROM invoices

WHERE payment\_date BETWEEN "2018-08-01" AND "2018-08-31"

Table

Description automatically generated

1. (5) Write a SELECT statement that shows invoice\_id, vendor\_id, and invoice\_total where the payment is not made. Use the LIMIT clause so the result set contains only the rows with the 5 largest invoice\_total.

USE ap;

SELECT invoice\_id, vendor\_id, invoice\_total

FROM invoices

WHERE payment\_date IS null

ORDER BY invoice\_total DESC

LIMIT 5

Table

Description automatically generated

1. (5) Write a SELECT statement that shows invoice\_id, invoice\_total, and payment\_total where the payment is made partial, that is, the payment is made but not made in full.

USE ap;

SELECT invoice\_id, invoice\_total, payment\_total

FROM invoices

WHERE invoice\_total - payment\_total > 0

Table

Description automatically generated

1. (10) Write a SELECT statement that returns invoice\_number, invoice\_date, balance\_due, and payment\_date from the Invoices table. The balance\_due is the invoice\_total column minus the payment\_total and credit\_total columns.

Return only the rows where the payment\_date column contains a null value.

USE ap;

SELECT invoice\_number, invoice\_date, invoice\_total - payment\_total - credit\_total AS balance\_due, payment\_date

FROM invoices

WHERE payment\_date is null

Table

Description automatically generated

1. (5) Write a SELECT statement to show the invoice number, invoice\_total, and balance due where the balance due is greater than 100. Sort the result balance due in descending order.

USE ap;

SELECT invoice\_number, invoice\_total, invoice\_total - payment\_total - credit\_total AS balance\_due

FROM invoices

WHERE invoice\_total - payment\_total - credit\_total > 100

ORDER BY balance\_due DESC

Table

Description automatically generated

1. (5) Write a SELECT statement without a FROM clause that uses the CURRENT\_DATE function to return the current date in DD-Mon-YYYY format. Use the DATE\_FORMAT function. This displays the day, month, and four‐digit year of the current date. Give this column an alias of ‘Current Date’.

SELECT date\_format(current\_date(), "%d-%m-%Y") as "Current Date"

A picture containing shape

Description automatically generated

1. (10) Write a SELECT statement without a FROM clause that creates a row with these columns: starting\_principal Starting principal of $100,000   
   interest 3.5% of the principal principal\_plus\_interest The principal plus the interest To calculate the third column, add the expressions you used for the first two columns

SELECT CONCAT('$', FORMAT(100000, 'C')) AS starting\_principal, CONCAT('$', FORMAT((100000 \* 0.035), 'C')) AS interest, CONCAT('$', FORMAT((100000 + 3500), 'C') ) AS principal\_plus\_interest

Graphical user interface, application

Description automatically generated

1. (5) Write a SELECT statement to show all the states where vendors are located from the vendors table. Avoid duplicate vendor names.

use ap;

SELECT distinct vendor\_name, vendor\_state

FROM vendors

Table

Description automatically generated

1. (5) Write a SELECT statement that returns vendor\_name, vendor\_contact\_last\_name, and vendor\_contact\_first\_name from the vendors table, with the result ordered by last name and then first name.

use ap;

SELECT vendor\_name, vendor\_contact\_last\_name, vendor\_contact\_first\_name

FROM vendors

ORDER BY vendor\_contact\_last\_name, vendor\_contact\_first\_name

Table

Description automatically generated

1. (5) Write a SELECT statement to show the vendor name, vendor city, vendor state, and vendor zipcode where the vendor zip code starts with 9.

use ap;

SELECT vendor\_name, vendor\_city, vendor\_state, vendor\_zip\_code

FROM vendors

WHERE substring(vendor\_zip\_code, 1, 1) = "9"

Table

Description automatically generated

1. (5) Write a SELECT statement to show the vendor name and vendor city where there is no phone number for the vendor.

use ap;

SELECT vendor\_name, vendor\_city

FROM vendors

WHERE vendor\_phone is null

Graphical user interface, text, table

Description automatically generated

1. (10) Write a SELECT statement that returns one column from the Vendors table named full\_name that joins the vendor\_contact\_first\_name and vendor\_contact\_last\_name columns. Format this column with the first name, a space, and the last name like this: Jane Doe Sort the result set by last name and then first name. Return only the contacts whose last name starts with A through H.

use ap;

SELECT CONCAT(CONCAT(vendor\_contact\_first\_name, " "), vendor\_contact\_last\_name) AS full\_name

FROM vendors

WHERE SUBSTRING(vendor\_contact\_last\_name, 1, 1) BETWEEN "A" AND "H"

ORDER BY vendor\_contact\_last\_name, vendor\_contact\_first\_name

Graphical user interface, text, application

Description automatically generated

1. (10) Write a SELECT statement that returns these column names and data from the Invoices   
   table:   
   Due Date The invoice\_due\_date column  
   Invoice Total The invoice\_total column  
   10% 10% of the value of invoice\_total   
   Plus 10% The value of invoice\_total plus 10%

use ap;

SELECT invoice\_due\_date AS 'Due Date', invoice\_total AS 'Invoice Total', invoice\_total \* .1 AS '10%', invoice\_total \* 1.10 AS 'Plus 10%'

FROM invoices

Table, Excel

Description automatically generated

1. (5) Write a SELECT statement that shows the invoice\_id, line\_item\_amount, and   
   line\_item\_description from the invoice\_line\_items table where the line\_item\_amount is greater   
   than 100.

use ap;

SELECT invoice\_id, line\_item\_amount, line\_item\_description

FROM invoice\_line\_items

WHERE line\_item\_amount > 100

Table

Description automatically generated