WEEK 8

Multiple_Table_Activities

PROBLEM 1:

Problem 1

Write a SELECT statement that returns all columns from the Vendors table inner-joined with all columns from the Invoices table.

Details

- This should return 114 rows.
- Hint: You can use an asterisk (*) to select the columns from both tables.

```
USE ap;
Select * from vendors INNER JOIN  invoices ON vendors.vendor_id = invoices.vendor_id;
```

vendor_id	vendor_name	vendor_address1	vendor_address2	vendor_city	vendor_state	vendor_zip_code	vendor_phone	vendor_conta
122	United Parcel Service	P.O. Box 505820	NULL	Reno	NV	88905	(800) 555-0855	Beauregard
123	Federal Express Corporation	P.O. Box 1140	Dept A	Memphis	TN	38101	(800) 555-4091	Bucket
123	Federal Express Corporation	P.O. Box 1140	Dept A	Memphis	TN	38101	(800) 555-4091	Bucket
123	Federal Express Corporation	P.O. Box 1140	Dept A	Memphis	TN	38101	(800) 555-4091	Bucket
123	Federal Express Corporation	P.O. Box 1140	Dept A	Memphis	TN	38101	(800) 555-4091	Bucket
123	Federal Express Corporation	P.O. Box 1140	Dept A	Memphis	TN	38101	(800) 555-4091	Bucket

PROBLEM 2:

Problem 2

Write a SELECT statement that returns these four columns:

- vendor_name - The vendor_name column from the Vendors table
- invoice_number - The invoice_number column from the Invoices table
- invoice_date - The invoice_date column from the Invoices table
- balance_due - The invoice_total column minus the payment_total and credit_total columns from the Invoices table

```sql
SELECT
v.vendor_name,
i.invoice_number,
i.invoice_date,
i.invoice_total-(i.payment_total + i.credit_total) AS balance_due
FROM vendors AS v INNER JOIN invoices AS i ON v.vendor_id = i.vendor_id
WHERE i.invoice_total-(i.payment_total + i.credit_total)!=0
ORDER BY v.vendor_name;
```

vendor_name	invoice_number	invoice_date	balance_due
Blue Cross	547480102	2011-08-01	224.00
Cardinal Business Media, Inc.	134116	2011-07-28	90.36
Data Reproductions Corp	39104	2011-07-10	85.31
Federal Express Corporation	963253264	2011-07-18	52.25
Federal Express Corporation	263253268	2011-07-21	59.97
Federal Express Corporation	263253270	2011-07-22	67.92
Federal Express Corporation	263253273	2011-07-22	30.75
Ford Motor Credit Company	9982771	2011-07-24	503.20
	21261022	2011 07 21	570 42

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PROBLEM 3:

Problem 3

Write a SELECT statement that returns these three columns:

- vendor_name - The vendor_name column from the Vendors table
- default_account - The default_account_number column from the Vendors table
- description - The account_description column from the General_Ledger_Accounts table

Details

- Return one row for each vendor.
- This should return 122 rows.
- Sort the result set by account_description and then by vendor_name.

```sql
SELECT
v.vendor_name,
v.default_account_number as default_account,
g.account_description
FROM vendors AS v LEFT JOIN general_ledger_accounts AS g
ON v.default_account_number = g.account_number
ORDER BY g.account_description, v.vendor_name;
```

vendor_name	default_account	account_description
Dristas Groom & McCormick	591	Accounting
DMV Renewal	568	Auto License Fee
Newbrige Book Clubs	394	Book Club Royalties
Bertelsmann Industry Svcs. Inc	400	Book Printing Costs
Courier Companies, Inc	400	Book Printing Costs
Crown Printing	400	Book Printing Costs
Data Reproductions Corp	400	Book Printing Costs
Diversified Printing & Pub	400	Book Printing Costs
Malloy Lithographing Inc	400	Book Printing Costs