Comp1168 LabNo09

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Question1

USE ap;

SELECT invoice_id, payment_total

FROM invoices

WHERE payment_total > (SELECT AVG(payment_total) FROM invoices);

Question2

USE ap;

SELECT invoice_number, invoice_date, invoice_total

FROM invoices

WHERE vendor_id IN (SELECT vendor_id FROM vendors WHERE vendor_state = 'CA');

Question3

USE ap;

SELECT v.vendor_id, v.vendor_name, vendor_state

FROM Vendors v

LEFT JOIN Invoices i ON v.vendor_id = i.vendor_id

WHERE i.invoice_id IS NULL;

Question4

```sql
SELECT v.vendor_name, i.invoice_number, i.invoice_total

FROM vendors v

JOIN invoices i ON v.vendor_id = i.vendor_id

WHERE i.invoice_total > ALL (

    SELECT invoice_total

    FROM invoices

    WHERE vendor_id = 34

);
```

Question5

```sql
SELECT vendor_id, vendor_name, vendor_state

FROM vendors v

WHERE NOT EXISTS (

    SELECT 1

    FROM invoices i

    WHERE i.vendor_id = v.vendor_id

);
```

Question6

```sql
SELECT v.vendor_name,

    (SELECT MAX(i.invoice_date)

     FROM invoices i

     WHERE i.vendor_id = v.vendor_id) AS latest_inv

FROM vendors v

WHERE EXISTS (SELECT 1 FROM invoices i WHERE i.vendor_id = v.vendor_id);
```