

Comp1168 LabNo7

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■ Q1

```
-- Q1
-- use ap;
-- show tables;
select
    invoice_id,
    payment_total
from ap.invoices
where payment_total > (select avg(payment_total) from ap.invoices);
```

■ Q2

```
-- Q2
-- use ap;
-- show tables;
-- select * from ap.vendors;
select
    invoice_number,
    invoice_date,
    invoice_total
from ap.invoices
where vendor_id in(
    select vendor_id
    from ap.vendors
    where vendor_state = "CA"
)
order by invoice_date;
```

■ Q3

```
-- Q3
select
    v.vendor_id,
    v.vendor_name,
    v.vendor_state
from ap.vendors v
left join ap.invoices i
on v.vendor_id = i.vendor_id
where i.invoice_id IS Null;
```

■ Q4

```
-- Q4
select
    v.vendor_name,
    i.invoice_number,
    i.invoice_total
from ap.vendors v
join ap.invoices i
on v.vendor_id = i.vendor_id
where invoice_total > All(
    select invoice_total
    From ap.invoices
    where vendor_id =34)
order by vendor_name;
```

■ Q5

```
-- Q5
select
    vendor_id,
    vendor_name,
    vendor_state
from ap.vendors v
> where not exists(
    select *
    from ap.invoices i
    ~ where i.vendor_id = v.vendor_id);
```

■ Q6

```
-- Q6
-- use ap;
-- show tables;
-- select * from invoices;

SELECT
    vendor_name,
    Latest_Inv_Date
> FROM (
    SELECT
        vendor_name,
        (SELECT MAX(i.invoice_date)
        ~ FROM ap.invoices i
        ~ WHERE i.vendor_id = v.vendor_id) AS Latest_Inv_Date
    FROM ap.vendors v
    ~ ) AS SubQuery
```