

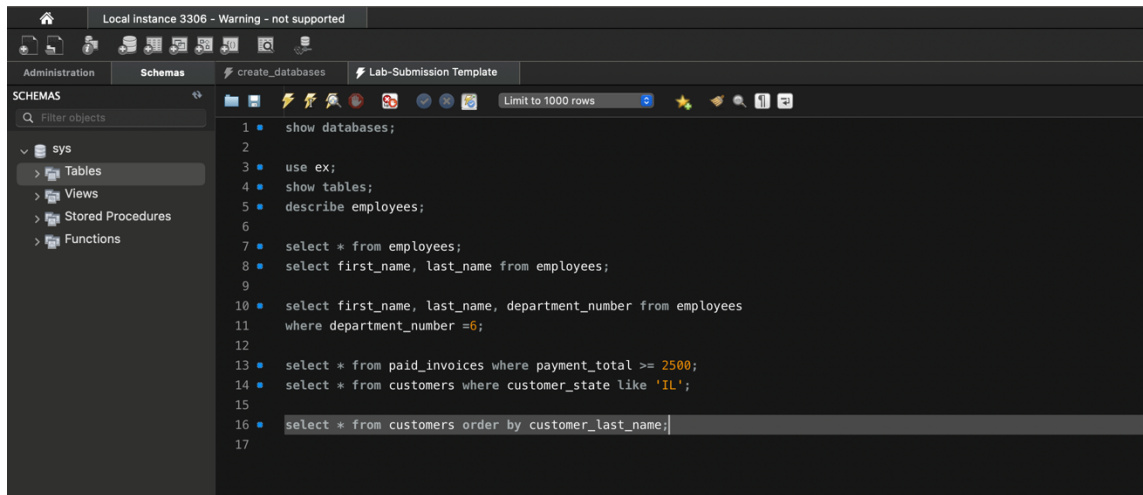
# Comp1168 LabNo1

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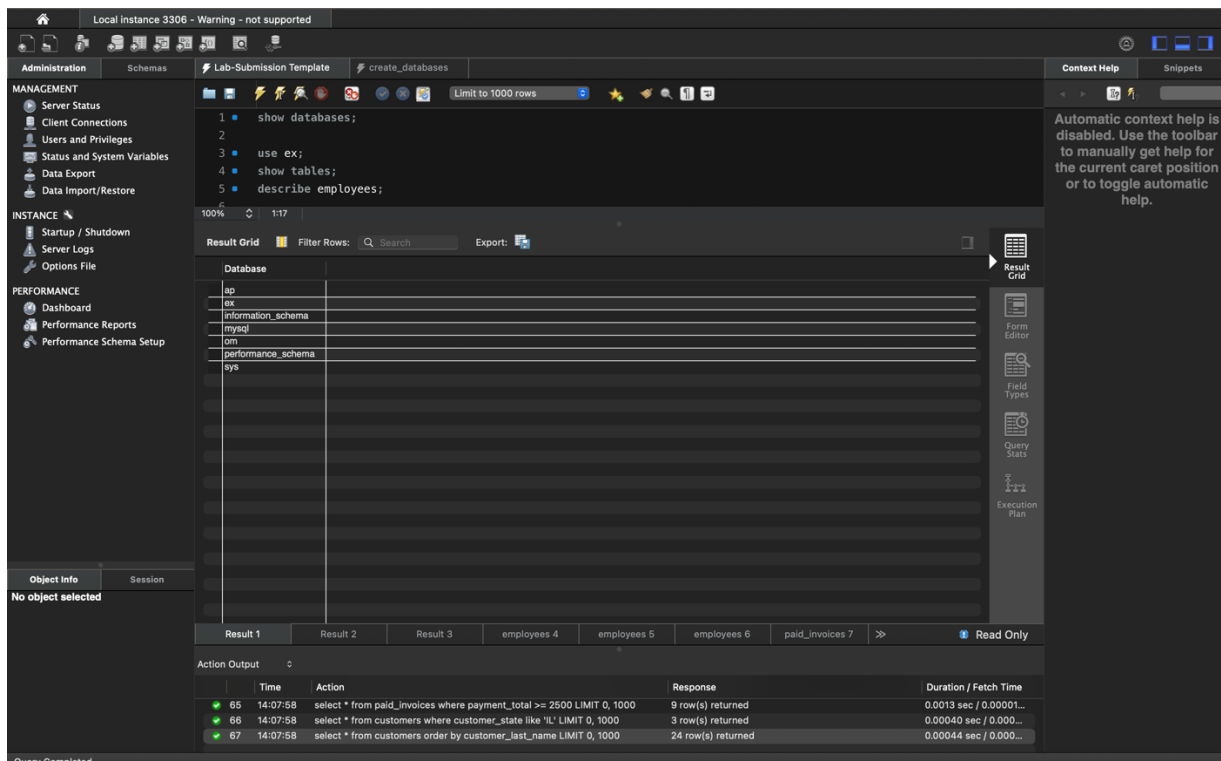
Date: 01/09/2025



The screenshot shows the SQL Developer interface with a query editor. The left sidebar shows the 'SCHEMAS' tree with 'sys' expanded. The main editor contains the following SQL code:

```
1 show databases;
2
3 use ex;
4 show tables;
5 describe employees;
6
7 select * from employees;
8 select first_name, last_name from employees;
9
10 select first_name, last_name, department_number from employees
11 where department_number =6;
12
13 select * from paid_invoices where payment_total >= 2500;
14 select * from customers where customer_state like 'IL';
15
16 select * from customers order by customer_last_name;
17
```

Q1:



The screenshot shows the SQL Developer interface with the execution results of the SQL query. The left sidebar shows the 'MANAGEMENT' tree with 'Server Status' expanded. The main editor shows the 'Result Grid' with the following data:

| Database        | ap | ex | information_schema | mysql | performance_schema | sys |
|-----------------|----|----|--------------------|-------|--------------------|-----|
| Result 1        |    |    |                    |       |                    |     |
| Result 2        |    |    |                    |       |                    |     |
| Result 3        |    |    |                    |       |                    |     |
| employees 4     |    |    |                    |       |                    |     |
| employees 5     |    |    |                    |       |                    |     |
| employees 6     |    |    |                    |       |                    |     |
| paid_invoices 7 |    |    |                    |       |                    |     |

The bottom section shows the 'Action Output' table with the following data:

| Time        | Action  | Response           | Duration / Fetch Time   |
|-------------|---|--------------------|-------------------------|
| 65 14:07:58 | select * from paid_invoices where payment_total >= 2500 LIMIT 0, 1000 | 9 row(s) returned  | 0.0013 sec / 0.00001... |
| 66 14:07:58 | select * from customers where customer_state like 'IL' LIMIT 0, 1000  | 3 row(s) returned  | 0.00040 sec / 0.000...  |
| 67 14:07:58 | select * from customers order by customer_last_name LIMIT 0, 1000     | 24 row(s) returned | 0.00044 sec / 0.000...  |

The status bar at the bottom indicates 'Query Completed'.

Q2

The screenshot shows a database client interface with a 'Result Grid' displaying a table schema. The table has the following columns: Field, Type, Null, Key, Default, and Extra. The rows represent the columns of the 'employees' table.

| Field             | Type        | Null | Key | Default | Extra |
|-------------------|-------------|------|-----|---------|-------|
| employee_id       | int         | NO   |     | HULL    |       |
| last_name         | varchar(35) | NO   |     | HULL    |       |
| first_name        | varchar(35) | NO   |     | HULL    |       |
| department_number | int         | NO   |     | HULL    |       |
| manager_id        | int         | YES  |     | HULL    |       |

Below the table, there are tabs for 'Result 1', 'Result 2', 'Result 3', 'employees 4', 'employees 5', 'employees 6', 'paid\_invoices 7', and a '>>' button. A 'Read Only' status is indicated at the bottom right.

Q3

The screenshot shows a database client interface with a query execution results page. The interface includes a sidebar with navigation options, a main area for the query and results, and a bottom section for action output.

**Query:**

```
1 show databases;
2
3 use ex;
4 show tables;
5 describe employees;
```

**Result Grid:**

| Table           | Fields |
|-----------------|--------|
| active_invoices |        |
| color_sample    |        |
| customers       |        |
| date_sample     |        |
| departments     |        |
| employees       |        |
| float_sample    |        |
| null_sample     |        |
| paid_invoices   |        |
| projects        |        |
| string_sample   |        |

**Action Output:**

| Time        | Action  | Response           | Duration / Fetch Time   |
|-------------|---|--------------------|-------------------------|
| 65 14:07:58 | select * from paid_invoices where payment_total >= 2500 LIMIT 0, 1000 | 9 row(s) returned  | 0.0013 sec / 0.00001... |
| 66 14:07:58 | select * from customers where customer_state like 'IL' LIMIT 0, 1000  | 3 row(s) returned  | 0.00040 sec / 0.000...  |
| 67 14:07:58 | select * from customers order by customer_last_name LIMIT 0, 1000     | 24 row(s) returned | 0.00044 sec / 0.000...  |

Query Completed

Q4

[illegible]

Q5

[illegible]

Q6

|  | first_name | last_name | department_num... |  |
|--|------------|-----------|-------------------|--|
|  | Denise     | Watson    | 6                 |  |
|  | Paulo      | Locario   | 6                 |  |
|  |            |           |                   |  |
|  |            |           |                   |  |
|  |            |           |                   |  |

Q7

[illegible]

Q8

Result Grid

Filter Rows:

Q

Search

Export:

|  | customer_id | customer_last_na... | customer_first_na... | customer_address   | customer_ci... | customer_sta... | customer_zip | customer_pho... |  |
|--|-------------|---------------------|----------------------|--------------------|----------------|-----------------|--------------|-----------------|--|
|  | 6           | Moos                | Hanna                | 1778 N Bovine Ave  | Peoria         | IL              | 61638        | (309) 555-8755  |  |
|  | 7           | Citeaux             | Fred                 | 1234 Main St       | Normal         | IL              | 61761        | (309) 555-1914  |  |
|  | 9           | Lebihan             | Laurence             | 717 E Michigan Ave | Chicago        | IL              | 60611        | (312) 555-9441  |  |
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Q9

| Result Grid |             |                     |                      |                                |                 |                 |              |                 |
|-------------|-------------|---------------------|----------------------|--------------------------------|-----------------|-----------------|--------------|-----------------|
|             |             | Filter Rows:        |                      | Search                         |                 | Export:         |              |                 |
|             | customer_id | customer_last_na... | customer_first_na... | customer_address               | customer_ci...  | customer_sta... | customer_zip | customer_pho... |
|             | 1           | Anders              | Maria                | 345 Winchell Pl                | Anderson        | IN              | 46014        | (765) 555-7878  |
|             | 5           | Berglund            | Christina            | 22717 E 73rd Ave               | Dubuque         | IA              | 52004        | (319) 555-1139  |
|             | 19          | Braunschweiger      | Art                  | P.O. Box 555                   | Lander          | WY              | 82520        | (307) 555-4680  |
|             | 24          | Chelan              | Donna                | 2299 E Baylor Dr               | Dallas          | TX              | 75224        | (469) 555-8828  |
|             | 7           | Citeaux             | Fred                 | 1234 Main St                   | Normal          | IL              | 61761        | (309) 555-1914  |
|             | 4           | Hardy               | Thomas               | 83 d'Urberville Ln             | Casterbridge    | GA              | 31209        | (478) 555-1139  |
|             | 23          | Jablonski           | Karl                 | 305 - 14th Ave. S. Suite 3B    | Seattle         | WA              | 98128        | (206) 555-4112  |
|             | 12          | Latimer             | Yoshi                | City Center Plaza 516 Main St. | Elgin           | OR              | 97827        | (503) 555-6874  |
|             | 9           | Lebihan             | Laurence             | 717 E Michigan Ave             | Chicago         | IL              | 60611        | (312) 555-9441  |
|             | 10          | Lincoln             | Elizabeth            | 4562 Rt 78 E                   | Vancouver       | WA              | 98684        | (360) 555-2680  |
|             | 6           | Moos                | Hanna                | 1778 N Bovine Ave              | Peoria          | IL              | 61638        | (309) 555-8755  |
|             | 3           | Moreno              | Antonio              | 6925 N Parkland Ave            | Puyallup        | WA              | 98373        | (253) 555-8332  |
|             | 22          | Nagy                | Helvetius            | 722 DaVinci Blvd.              | Concord         | MA              | 01742        | (351) 555-1219  |
|             | 20          | Nixon               | Liz                  | 89 Jefferson Way Suite 2       | Providence      | RI              | 02909        | (401) 555-3612  |
|             | 18          | Pavarotti           | Jose                 | 187 Suffolk Ln.                | Boise           | ID              | 83720        | (208) 555-8097  |
|             | 16          | Phillips            | Rene                 | 2743 Bering St.                | Anchorage       | AK              | 99508        | (907) 555-7584  |
|             | 11          | Snyder              | Howard               | 2732 Baker Blvd.               | Eugene          | OR              | 97403        | (503) 555-7555  |
|             | 13          | Steel               | John                 | 12 Orchestra Terrace           | Walla Walla     | WA              | 99362        | (509) 555-7969  |
|             | 8           | Summer              | Martin               | 1877 Ete Ct                    | Frogtown        | LA              | 70563        | (337) 555-9441  |
|             | 2           | Trujillo            | Ana                  | 1298 E Smathers St             | Benton          | AR              | 72018        | (501) 555-7733  |
|             | 15          | Wilson              | Fran                 | 89 Chiaroscuro Rd.             | Portland        | OR              | 97219        | (503) 555-9573  |
|             | 17          | Wilson              | Paula                | 2817 Milton Dr.                | Albuquerque     | NM              | 87110        | (505) 555-5939  |
|             | 21          | Wong                | Liu                  | 55 Grizzly Peak Rd.            | Butte           | MT              | 59801        | (406) 555-5834  |
|             | 14          | Yorres              | Jaime                | 87 Polk St. Suite 5            | San Francisco   | CA              | 94117        | (415) 555-5938  |
|             |             |                     |                      |                                |                 |                 |              |                 |
|             |             |                     |                      |                                |                 |                 |              |                 |
|             |             |                     |                      |                                |                 |                 |              |                 |
| Result 3    |             | employees 4         | employees 5          | employees 6                    | paid_invoices 7 | customers 8     | customers 9  | >>              |