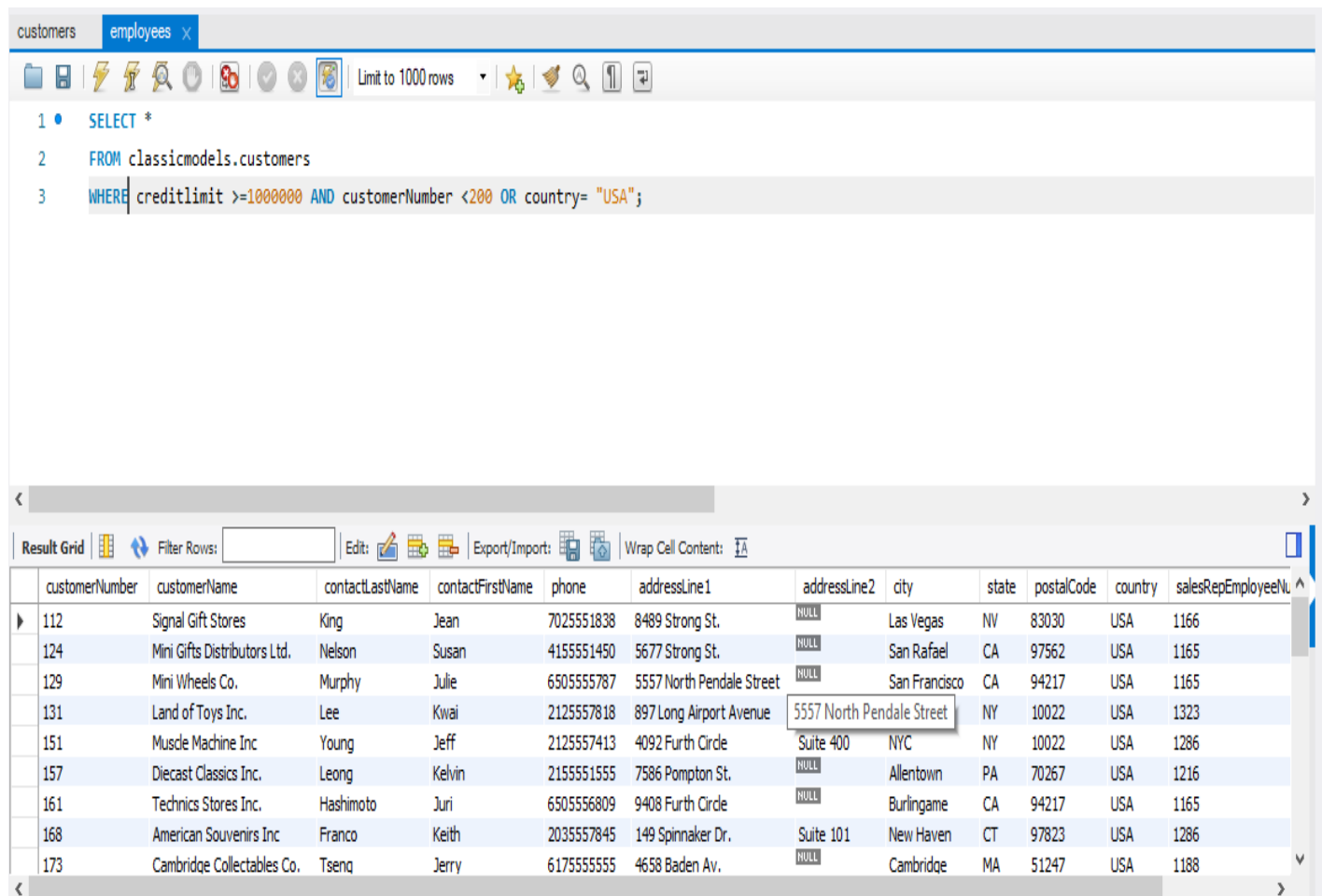


Ahmed Elsayed Ahmed sneed

ID: 4211142 -A4-

S1 (Database)

- Get all customers with creditLimit more than or equal to 1000000 and customerNumber less than 200 or country is USA.



The screenshot shows a database query interface. At the top, there are tabs for 'customers' and 'employees'. Below the tabs is a toolbar with various icons and a 'Limit to 1000 rows' dropdown. The SQL query is displayed in a text area:

```
1 SELECT *
2 FROM classicmodels.customers
3 WHERE creditlimit >=1000000 AND customerNumber <200 OR country= "USA";
```

Below the query, there is a 'Result Grid' section. It includes a 'Filter Rows' input field, an 'Edit' button, an 'Export/Import' button, and a 'Wrap Cell Content' checkbox. The results are displayed in a table with the following columns: customerNumber, customerName, contactLastName, contactFirstName, phone, addressLine1, addressLine2, city, state, postalCode, country, and salesRepEmployeeNu. The table contains 10 rows of data, with the first row highlighted in blue.

| customerNumber | customerName | contactLastName | contactFirstName | phone | addressLine1 | addressLine2 | city | state | postalCode | country | salesRepEmployeeNu |
|----------------|------------------------------|-----------------|------------------|------------|---------------------------|---------------------------|---------------|-------|------------|---------|--------------------|
| 112 | Signal Gift Stores | King | Jean | 7025551838 | 8489 Strong St. | NULL | Las Vegas | NV | 83030 | USA | 1166 |
| 124 | Mini Gifts Distributors Ltd. | Nelson | Susan | 4155551450 | 5677 Strong St. | NULL | San Rafael | CA | 97562 | USA | 1165 |
| 129 | Mini Wheels Co. | Murphy | Julie | 6505555787 | 5557 North Pendale Street | NULL | San Francisco | CA | 94217 | USA | 1165 |
| 131 | Land of Toys Inc. | Lee | Kwai | 2125557818 | 897 Long Airport Avenue | 5557 North Pendale Street | NY | 10022 | USA | 1323 | |
| 151 | Muscle Machine Inc | Young | Jeff | 2125557413 | 4092 Furth Circle | Suite 400 | NYC | NY | 10022 | USA | 1286 |
| 157 | Diecast Classics Inc. | Leong | Kelvin | 2155551555 | 7586 Pompton St. | NULL | Allentown | PA | 70267 | USA | 1216 |
| 161 | Technics Stores Inc. | Hashimoto | Juri | 6505556809 | 9408 Furth Circle | NULL | Burlingame | CA | 94217 | USA | 1165 |
| 168 | American Souvenirs Inc | Franco | Keith | 2035557845 | 149 Spinnaker Dr. | Suite 101 | New Haven | CT | 97823 | USA | 1286 |
| 173 | Cambridge Collectables Co. | Tsenq | Jerry | 6175555555 | 4658 Baden Av. | NULL | Cambridge | MA | 51247 | USA | 1188 |

- Get all customers and calculate new_credit column (creditLimit + 2000) order the query by new_credit DESC.

customers employees x

</

- Get 3 customers that have the highest creditLimit

The screenshot shows the SQL Developer interface. At the top, there are tabs for "customers" and "employees". Below them is a toolbar with various icons. The main area displays a SQL query:

```
1 • SELECT *  
2 FROM classicmodels.customers  
3 ORDER BY creditLimit DESC  
4 LIMIT 3;
```

Below the query editor is the "Result Grid" tab, which contains a table with 13 columns: member, customerName, contactLastName, contactFirstName, phone, addressLine1, addressLine2, city, state, postalCode, country, salesRepEmployeeNumber, and creditLimit. The first three rows of data are visible.

| member | customerName | contactLastName | contactFirstName | phone | addressLine1 | addressLine2 | city | state | postalCode | country | salesRepEmployeeNumber | creditLimit |
|--------|------------------------------|-----------------|------------------|----------------|-------------------|-------------------|------------|-------|------------|-------------|------------------------|-------------|
| | Euro+ Shopping Channel | Freyre | Diego | (91) 555 94 44 | C/Moralzarzal, 86 | NULL | Madrid | NULL | 28034 | Spain | 1370 | 227600.00 |
| | Mini Gifts Distributors Ltd. | Nelson | Susan | 4155551450 | 5677 Strong St. | NULL | San Rafael | CA | 97562 | USA | 1165 | 210500.00 |
| * | Vida Sport, Ltd | Holz | Mihael | 0897-034555 | Grenzacherw | Grenzacherweg 237 | Genève | NULL | 1203 | Switzerland | 1702 | 141300.00 |

- Get customers that its `contactFirstName` starts with 'je' or 'le'.

[illegible]

- Get customers that its contactFirstName is ended with 'el' or contains 'ie'.

customers employees

Limit to 1000 rows

```

1 • SELECT *
2 FROM classicmodels.customers
3 WHERE contactFirstName LIKE '%el' OR contactFirstName LIKE '%ie';

```

Result Grid

| customerNumber | customerName | contactLastName | contactFirstName | phone | addressLine1 | addressLine2 | city | state | postalCode | country | salesRepEmployeeNumber |
|----------------|---------------------------|-----------------|------------------|----------------|---------------------------|----------------|---------------|-------|------------|---------|------------------------|
| 129 | Mini Wheels Co. | Murphy | Julie | 6505555787 | 5557 North Pendale Street | NULL | San Francisco | CA | 94217 | USA | 1165 |
| 167 | Herku Gifts | Oeztan | Veysel | +47 2267 3215 | Brehmen St. 121 | PR 334 Sentrum | Bergen | NULL | N 5804 | Norway | 1504 |
| 172 | La Corne D'abondance, Co. | Bertrand | Marie | (1) 42.34.2555 | 265, boulevard Charonne | NULL | Paris | NULL | 75012 | France | 1337 |
| 175 | Gift Depot Inc. | King | Julie | 2035552570 | 25593 South Bay Ln. | NULL | Bridgewater | CT | 97562 | USA | 1323 |
| 181 | Vitachrome Inc. | Frick | Michael | 2125551500 | 2678 Kingston Rd. | Suite 101 | NYC | NY | 10022 | USA | 1286 |
| 187 | AV Stores, Co. | Ashworth | Rachel | (171) 555-1555 | Faunteroy Circus | NULL | Manchester | NULL | EC2 5NT | UK | 1501 |
| 198 | Auto-Moto Classics Inc. | Taylor | Leslie | 6175558428 | 16780 Pompton St. | NULL | Brickhaven | MA | 58339 | USA | 1216 |
| 204 | Online Mini Collectables | Barajas | Miguel | 6175557555 | 7635 Spinnaker Dr. | NULL | Brickhaven | MA | 58339 | USA | 1188 |
| 205 | Toys4GrownUps.com | Young | Julie | 57265 | 78934 Hillside Dr. | NULL | Pasadena | CA | 90003 | USA | 1166 |

- Get customers that its contactFirstName contains 'b' followed by g or a.

nm nm

Limit to 1000 rows

```

1 • SELECT *
2 FROM classicmodels.customers
3 WHERE contactFirstName REGEXP '[b].[ag]';

```

Result Grid

| customerNumber | customerName | contactLastName | contactFirstName | phone | addressLine1 | addressLine2 | city | state | postalCode | country | salesRepEmployeeNumber | creditLimit |
|----------------|-----------------------|-----------------|------------------|-----------------|------------------|--------------|-----------|-------|------------|-------------|------------------------|-------------|
| 303 | Schuyler Imports | Schuyler | Bradley | +31 20 491 9555 | Kingsfordweg 151 | NULL | Amsterdam | NULL | 1043 GR | Netherlands | NULL | 0.00 |
| 376 | Precious Collectables | Urs | Braun | 0452-076555 | Hauptstr. 29 | NULL | Bern | NULL | 3012 | Switzerland | 1702 | 0.00 |

➤ Write a small research about REGEXP

1.It provide a powerful and flexible pattern match that can help us implement power search utilities for our database systems.

2.REGEXP is the operator used when performing regular expression pattern matches. RLIKE is the synonym.

3.It also supports a number of metacharacters which allow more flexibility and control when performing pattern matching.

4.The backslash is used as an escape character. It's only considered in the pattern match if double backslashes have used.

5.Not case sensitive