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Lab No:	5
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Class:	BCE – 4A

Lab Tasks (SQL Store Database)

--Get the customers whose

--first name are **ELKA** or **AMBUR**

--last name end with **EY** or **ON**

--last name start with **MY** or contains **SE**

--last name contain **B** followed by **R** or **U**

-- Phone number ends with 9

-- Return the products with quantity in stock equal to 38,49,72

-- Customer born between 1/1/1990 and 1/1/2000

-- Address contains TRAIL or AVENUE

TASK 1

```
1•  use sql_store;
2•  select first_name like 'ELKA' or 'AMBUR'
3   from customers;
```

first_name like 'ELKA' or 'AMBUR'
0
0
0
0
0
1
0

TASK 2

```
1•  use sql_store;
2•  select last_name like '%EY' or '%ON'
3   from customers;
```

last_name like '%EY' or '%ON'
1
0
1
0
1
0
0

TASK 3

```sql
use sql_store;
select last_name like 'MY%' or 'SE%' from customers;
```

last_name like 'MY%' or 'SE%'
0
0
0
0
0
0
0
0
0
1

TASK 4

```sql
use sql_store;
select last_name like '%BU%' or '%BR%' from customers;
```

last_name like '%BU%' or '%BR%'
0
0
0
1
0
0
0
0
0

TASK 5

```sql
use sql_store;
select phone like '%9' from customers;
```

phone like '%9'
0
0
1
0
NULL
0
1
0

TASK 6

```sql
use sql_store;
select quantity_in_stock like '32'or'49'or'72' from products;
```

quantity_in_stock like '32'or'49'or'72'
1
1
1
1
1
1
1
1
1

TASK 7

```sql
use sql_store;
select birth_date from customers
where birth_date between '1991-01-01' and '2000-01-01';
```

	birth_date
▶	1991-09-04
	1993-07-17
	1992-05-23

TASK 8

```
use sql_store;
select address
from customers
where address like '%TRAIL%' OR '%AVENUE%';
```

	address
▶	14187 Commercial Trail
	3520 Ohio Trail

Post Lab Tasks (Using HR Database)

- Write a query to find all countries where the country_name is exactly 5 characters long.
- Find Countries where the Name Contains "land" but not at the Start or End.
- Display all locations where state_province contains two "s" characters, with any characters in between.

TASK 1

```
use hr;
select country_name from countries
where country_name like '_____'
```

	country_name
▶	China
	Egypt
	India
	Italy
	Japan

TASK 2

```
use hr;
select country_name from countries
where country_name like '%land%'
AND country_name not like '%land'
AND country_name not like 'land%'
```

country_name
Netherlands

TASK 3

```
USE hr;
SELECT state_province
FROM locations
WHERE state_province REGEXP 's.*s';
```

	state_province
▶	New South Wales

(Using Classic Models)

- Find Customers from Cities Starting with "N".
- Write a query to display all customers whose postal Code ends with "00".
- Find Customers Whose Last Name Contains "son".
- Find Customers from the USA with a Phone Number Starting with "702".
- Find Customers with State Names Containing the Letter "a" (Using LIKE) or Postal Codes Ending in "5".

TASK 1

```
use classicmodels;
select city from customers
where city like 'N%';
```

city
Nantes
Nantes
NYC
NYC
New Haven
NYC

TASK 2

```
1    use classicmodels;
2 •  select postalCode from customers
3    where postalCode like '%00';
```

postalCode
44000
44000
59000
67000
8200

TASK 3

```
use classicmodels;
select contactLastName from customers
where contactLastName like '%son%';
```

contactLastName
Ferguson
Nelson
Thompson
Harrison
Nelson
Larsson
Thompson

TASK 4

```
use classicmodels;
select phone from customers
where phone like '702%' AND country = 'USA';
```

phone
7025551838

TASK 5

```
use classicmodels;
select customerName from customers
where state like '%a'
or postalCode like '%5'
```

customerName
Australian Collectors, Co.
Mini Gifts Distributors Ltd.
Mini Wheels Co.
Diecast Classics Inc.
Technics Stores Inc.
Handji Gifts& Co
Cambridge Collectables Co.
Osaka Souveniers Co.
Auto-Moto Classics Inc.

Critical Analysis

In this lab, we explored different ways to retrieve specific information from a database. By using commands like LIKE, REGEXP, % and ^ symbols we were able to filter data more effectively and find detailed results. This helped improve our ability to work with databases and extract useful information.

Lab Assessment		
Lab Task Evaluation	**/6**	**/10**
Lab Report	**/4**	
Instructor Signature and Comments		