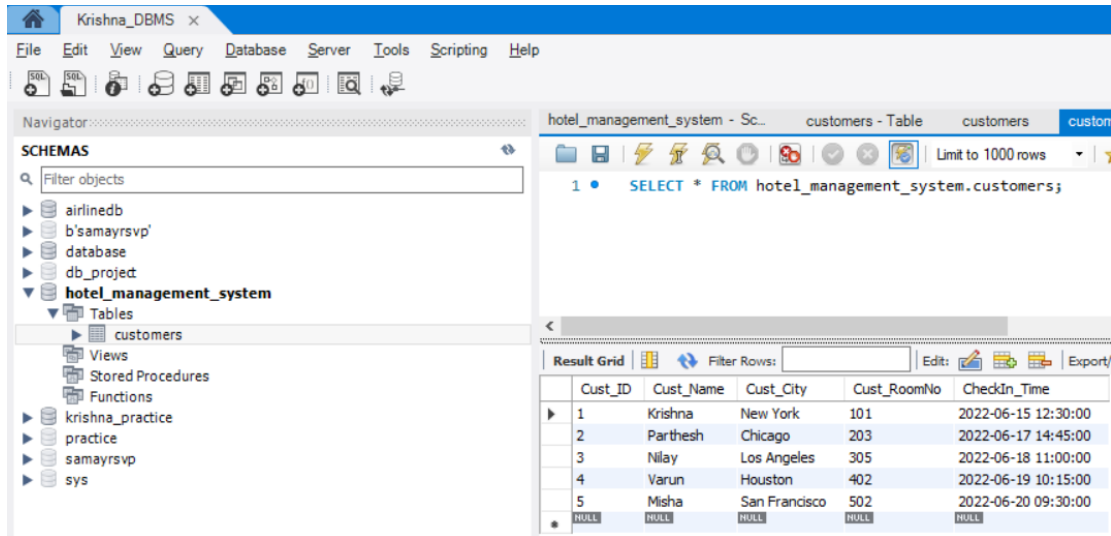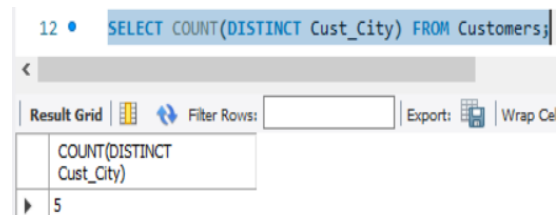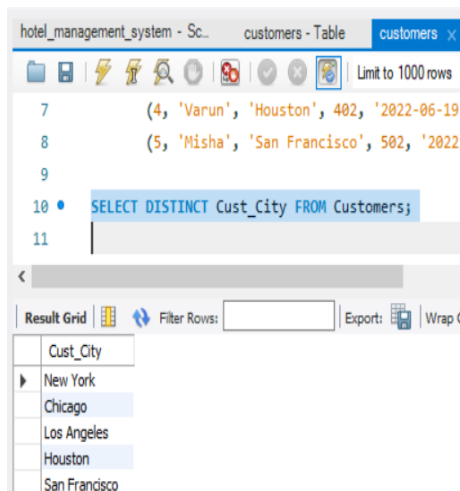# Krishna Nayak

Exercise – 2

EXERCISE 1:

Create a database scheme and name it as a hotel management system.

EXERCISE 2:

Implementation of basic SQL commands.

1. Print Distinct City from Table Customers and Print Count Distinct City from Table Customers.

2. Write a SQL query to get the least number of quantities and the highest number of quantities bought by the user consider the OrderDetails Table.

```
3 ●    SELECT  MIN(Quantity) AS LeastQuantity, MAX(Quantity) AS HighestQuantity
4      FROM Order_Details;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

LeastQuantity	HighestQuantity
1	120

2. Print the total and an average number of quantities ordered by users, consider the OrderDetails Table.

```
6 ●    SELECT SUM(Quantity) AS TotalQuantity, AVG(Quantity) AS AverageQuantity
7      FROM Order_Details;
8      |
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

TotalQuantity	AverageQuantity
12743	24.6004

3. Print name of the product which is present at the 5th position till the 15th position from Products table, use LIMIT keyword.

```
8 •    SELECT ProductName FROM Products LIMIT 10 OFFSET 4;
9      |
```

	ProductName
▶	Chef Anton's Gumbo Mix
	Grandma's Boysenberry Spread
	Uncle Bob's Organic Dried Pears
	Northwoods Cranberry Sauce
	Mishi Kobe Niku
	Ikura
	Queso Cabrales
	Queso Manchego La Pastora
	Konbu
	Tofu

4. Write a SQL query for all the details of the supplier whose name consists of "A" at the second position from the Suppliers table.

```
3 •    SELECT * FROM Suppliers WHERE SupplierName LIKE '_A%';
4
```

SupplierID	SupplierName	ContactName	Address	City	PostalCode	Country	Phone
▶ 6	Mayumi's	Mayumi Ohno	92 Setsuko Chuo-ku	Osaka	545	Japan	(06) 431-7877
7	Pavlova, Ltd.	Ian Devling	74 Rose St. Moonie Ponds	Melbourne	3058	Australia	(03) 444-2343
22	Zaanse Snoepfabriek	Dirk Luchte	Verkoop Rijnweg 22	Zaandam	9999 ZZ	Netherlands	(12345) 1212
23	Karkki Oy	Anne Heikkonen	Valtakatu 12	Lappeenranta	53120	Finland	(953) 10956
25	Ma Maison	Jean-Guy Lauzon	2960 Rue St. Laurent	Montréal	H1J 1C3	Canada	(514) 555-9022
26	Pasta Buttini s.r.l.	Giovanni Giudici	Via dei Gelsomini, 153	Salerno	84100	Italy	(089) 6547665
28	Gai pâturage	Eliane Noz	Bat. B 3, rue des Alpes	Annecy	74000	France	38.76.98.06
6	Mayumi's	Mayumi Ohno	92 Setsuko Chuo-ku	Osaka	545	Japan	(06) 431-7877
7	Pavlova, Ltd.	Ian Devling	74 Rose St. Moonie Ponds	Melbourne	3058	Australia	(03) 444-2343
22	Zaanse Snoepfabriek	Dirk Luchte	Verkoop Rijnweg 22	Zaandam	9999 ZZ	Netherlands	(12345) 1212
23	Karkki Oy	Anne Heikkonen	Valtakatu 12	Lappeenranta	53120	Finland	(953) 10956
25	Ma Maison	Jean-Guy Lauzon	2960 Rue St. Laurent	Montréal	H1J 1C3	Canada	(514) 555-9022
26	Pasta Buttini s.r.l.	Giovanni Giudici	Via dei Gelsomini, 153	Salerno	84100	Italy	(089) 6547665
28	Gai pâturage	Eliane Noz	Bat. B 3, rue des Alpes	Annecy	74000	France	38.76.98.06

5. Print the details of the customer who doesn't stay in the USA and Canada from the Customers table.

```
3 •    SELECT * FROM Customers WHERE country NOT IN ('USA', 'Canada');
```

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	12209	Germany
2	Ana Trujillo Emparedados y helados	Ana Trujillo	Avda. de la Constitución 2222	México D.F.	05021	Mexico
3	Antonio Moreno Taquería	Antonio Moreno	Mataderos 2312	México D.F.	05023	Mexico
4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London	WA1 1DP	UK
5	Berglunds snabbköp	Christina Berglund	Berguvsvägen 8	Luleå	S-958 22	Sweden
6	Blauer See Delikatessen	Hanna Moos	Forsterstr. 57	Mannheim	68306	Germany
7	Blondel père et fils	Frédérique Citeaux	24, place Kléber	Strasbourg	67000	France
8	Bólido Comidas preparadas	Martín Sommer	C/ Araquil, 67	Madrid	28023	Spain
9	Bon app'	Laurence Lebihans	12, rue des Bouchers	Marseille	13008	France
11	B's Beverages	Victoria Ashworth	Fauntleroy Circus	London	EC2 5NT	UK
12	Cactus Comidas para llevar	Patricio Simpson	Cerrito 333	Buenos Aires	1010	Argentina
13	Centro comercial Moctezuma	Francisco Chang	Sierras de Granada 9993	México D.F.	05022	Mexico
14	Chop-suey Chinese	Yang Wang	Hauptstr. 29	Bern	3012	Switzerl...
15	Comércio Mineiro	Pedro Afonso	Av. dos Lusíadas, 23	São Paulo	05432-043	Brazil
16	Consolidated Holdings	Elizabeth Brown	Berkeley Gardens 12 Brewery	London	WX1 6LT	UK
17	Drachenblut Delikatessend	Sven Ottlieb	Walserweg 21	Aachen	52066	Germany
18	Du monde entier	Janine Labrune	67, rue des Cinquante Otages	Nantes	44000	France
19	Eastern Connection	Ann Devon	35 King George	London	WX3 6FW	UK
20	Ernst Handel	Roland Mendel	Kirchgasse 6	Graz	8010	Austria

Exercise-3

1. Print the details of all the orders which were placed between the year 2020 to 2021 also print the same in descending order from the OrderDetails table.

Answer: As we can see there is no such entry of order from 2020 and 2021 we will not get any result for this query.

```
3 •    SELECT *
4      FROM order_details od
5      join orders o
6      on od.OrderID = o.OrderID
7      WHERE o.OrderDate BETWEEN '2020-01-01' AND '2021-12-31'
8      ORDER BY o.OrderDate DESC;
9
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

OrderDetailID	OrderID	ProductID	Quantity	OrderID	CustomerID	EmployeeID	OrderDate	ShipperID

2. Write a query to show the distinct city and their count from the Customers table.

```
3 •    SELECT City, COUNT(DISTINCT CustomerID) as customer_count
4      FROM customers
5      GROUP BY city;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

City	customer_count
Aachen	1
Albuquerque	1
Anchorage	1
Århus	1
Barcelona	1
Barquisimeto	1
Bergamo	1
Berlin	1
Bern	1
Boise	1
Bräcke	1
Brandenburg	1
Bruxelles	1
Buenos Aires	3
Butte	1
Campinas	1
Caracas	1
Charleroi	1

3. Write a query to fetch details of all employees excluding the employees with first names, "Sanjay" and "Sonia" from the Employees table.

```sql
3 •  SELECT * FROM employees WHERE FirstName NOT IN ('Sanjay', 'Sonia');
```

EmployeeID	LastName	FirstName	BirthDate	Photo	Notes
1	Rahul	Sharma	1968-12-08	EmpID1.pic	Education includes a BA in psychology from Colorado State University. She als...
2	Fuller	Copper	1952-02-19	EmpID2.pic	Andrew received his BTS commercial and a Ph.D. in international marketing fro...
3	Vivek	Desai	1963-08-30	EmpID3.pic	Janet has a BS degree in chemistry from Boston College). She has also complet...
4	Sanjay	Sutar	1958-09-19	EmpID4.pic	Margaret holds a BA in English literature from Concordia College and an MA fro...
5	Buchanan	Steven	1955-03-04	EmpID5.pic	Steven Buchanan graduated from St. Andrews University, Scotland, with a BS...
6	Suyama	Joshi	1963-07-02	EmpID6.pic	Michael is a graduate of Sussex University (MA, economics) and the University ...
7	Soniya	Tripathi	1960-05-29	EmpID7.pic	Robert King served in the Peace Corps and traveled extensively before comple...
8	Chagan	Kapoor	1958-01-09	EmpID8.pic	Laura received a BA in psychology from the University of Washington. She has...
9	Dodsworth	Anne	1969-07-02	EmpID9.pic	Anne has a BA degree in English from St. Lawrence College. She is fluent in Fr...
10	Ram	Rastogi	1928-09-19	EmpID10.pic	An old chum.
NULL	NULL	NULL	NULL	NULL	NULL

4. Duplicate a table as similar to the Suppliers table and name it as SupplierDetail.

```sql
4 •  CREATE TABLE SupplierDetail LIKE Suppliers;
5 •  INSERT INTO SupplierDetail SELECT * FROM Suppliers;
```

SupplierID	SupplierName	ContactName	Address	City	PostalCode	Country	Pho
1	Exotic Liquid	Charlotte Cooper	49 Gilbert St.	Londona	EC1 4SD	UK	(171
2	New Orleans Cajun Delights	Shelley Burke	P.O. Box 78934	New Orleans	70117	USA	(100
3	Grandma Kelly's Homestead	Regina Murphy	707 Oxford Rd.	Ann Arbor	48104	USA	(313
4	Tokyo Traders	Yoshi Nagase	9-8 Sekimai Musashino-shi	Tokyo	100	Japan	(03)
5	Cooperativa de Quesos 'Las Cabras'	Antonio del Valle Saavedra	Calle del Rosal 4	Oviedo	33007	Spain	(98)
6	Mayumi's	Mayumi Ohno	92 Setsuko Chuo-ku	Osaka	545	Japan	(06)
7	Pavlova, Ltd.	Ian Devling	74 Rose St. Moonie Ponds	Melbourne	3058	Australia	(03)
8	Specialty Biscuits, Ltd.	Peter Wilson	29 King's Way	Manchester	M14 GSD	UK	(161
9	PB Knäckebröd AB	Lars Peterson	Kaloadagatan 13	Göteborg	S-345 67	Sweden	031-
10	Refrescos Americanas LTDA	Carlos Diaz	Av. das Americanas 12.890	São Paulo	5442	Brazil	(11)
11	Heli Süßwaren GmbH & Co. KG	Petra Winkler	Tiergartenstraße 5	Berlin	10785	Germany	(010
12	Plutzer Lebensmittelgroßmärkte AG	Martin Bein	Bogenallee 51	Frankfurt	60439	Germany	(069
13	Nord-Ost-Fisch Handelsgesellschaft...	Sven Petersen	Frahmredder 112a	Cuxhaven	27478	Germany	(047
14	Formaggi Fortini s.r.l.	Elio Rossi	Viale Dante, 75	Ravenna	48100	Italy	(054
15	Norske Meierier	Beate Vileid	Hatlevegen 5	Sandvika	1320	Norway	(0)2-
16	Bigfoot Breweries	Cheryl Saylor	3400 - 8th Avenue Suite 210	Bend	97101	USA	(503
17	Svensk Sjöföda AB	Michael Björn	Brovallavägen 231	Stockholm	S-123 45	Sweden	08-1

5. Delete customer details whose country is Venezuela and print the rest of the Customer table

```
3 •  SET SQL_SAFE_UPDATES = 0;
4 •  DELETE FROM customers
5    WHERE country in ('Venezuela');
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
74	Spécialités du monde	Dominique Perrier	25, rue Lauriston	Paris	75016	France
75	Split Rail Beer & Ale	Art Braunschweiger	P.O. Box 555	Lander	82520	USA
76	Suprêmes délices	Pascale Cartrain	Boulevard Tirou, 255	Charleroi	B-6000	Belgium
77	The Big Cheese	Liz Nixon	89 Jefferson Way Suite 2	Portland	97201	USA
78	The Cracker Box	Liu Wong	55 Grizzly Peak Rd.	Butte	59801	USA
79	Toms Spezialitäten	Karin Josephs	Luisenstr. 48	Münster	44087	Germany
80	Tortuga Restaurante	Miguel Angel Paolino	Avda. Azteca 123	México D.F.	05033	Mexico
81	Tradição Hipermercados	Anabela Domingues	Av. Inês de Castro, 414	São Paulo	05634-030	Brazil
82	Trail's Head Gourmet Provisioners	Helvetius Nagy	722 DaVinci Blvd.	Kirkland	98034	USA
83	Vaffeljernet	Palle Ibsen	Smagsløget 45	Århus	8200	Denmark
84	Victuailles en stock	Mary Saveley	2, rue du Commerce	Lyon	69004	France
85	Vins et alcools Chevalier	Paul Henriot	59 rue de l'Abbaye	Reims	51100	France
86	Die Wandernde Kuh	Rita Müller	Adenauerallee 900	Stuttgart	70563	Germany
87	Wartian Herkku	Pirkko Koskitalo	Torikatu 38	Oulu	90110	Finland
88	Wellington Importadora	Paula Parente	Rua do Mercado, 12	Resende	08737-363	Brazil
89	White Clover Markets	Karl Jablonski	305 - 14th Ave. S. Suite 3B	Seattle	98128	USA
90	Wilman Kala	Matti Karttunen	Keskuskatu 45	Helsinki	21240	Finland
91	Wolski	Zbyszek	ul. Filtrowa 68	Walla	01-012	Poland