ALL QUERIES/COMMANDS

***Create Database :***

CREATE DATABASE milkyway;

***Create Table :***

Create Table Person(

PersonID int,

FirstName varchar(10),

lastName varchar(10),

Adress varchar(40),

City varchar(10),

PostalCode int,

);

***Point current Database to use tables in it :***

Use milkyway;

***Add new columns into existing database :***

ALTER TABLE Person

ADD EmailAddress VARCHAR(30) ,

PhoneNumber int ;

***Drop table from database :***

DROP TABLE Person;

***Change datatype of an existing comumn of a table into database :***

ALTER TABLE Person

ALTER COLUMN PhoneNumber varchar(10);

***Insert values into table :***

* INSERT INTO Computer\_Science (Id,Name,Father\_Name,Department,Semester,gpa,batch,email\_id)

Values (1,'shahid','Kashif','se',5,3.11,'2018','shahid@gmail.com')

,(3,'raza','asad','cs',3,4.00,'2015','raza@gmail.com')

* INSERT INTO Computer\_Science values (1,'shahid','Kashif','se',5,3.11,'2018','shahid@gmail.com')

***show values into table :***

Select \* from Computer\_Science (table name)

***Multiply values of columns and present them in new column’ :***

select ProductName, Price, 0.25\*Price+Price from Products;

***Alias mean to change name of a column temporarily ’ :***

SELECT CustomerName AS Customer, Contact AS [Contact Person]

FROM Customers;

***In Operator used to target and specific columns using by giving one columns identity ’ :***

SELECT CustomerName,Contact,Country,cities FROM Customers WHERE Ids IN (20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40)

***Or operator and where clause for finding more then one values in a specific column for it’s other columns details ’ :***

SELECT Ids,CustomerName,Contact,Country FROM Customers WHERE cities = 'Berlin' OR cities = 'London' OR cities = 'Paris'

***Like operator with where claus for find specific position a character in a word at specific column for details of its other columns ’ :***

SELECT \* FROM Customers WHERE CustomerName LIKE '\_\_\_a%';

***Not in Operator used for targeting values except those defined ’ :***

SELECT CustomerName , Country from Customers

where Country NOT IN ('UK' , 'Germany')

--lab 03 queries

--1)Multiply two values

select item\_name,price,3.74\*price+price as Result from [Items\_Catalogue]

--2)Us alias (as)

select client\_name as Client,Contact as [contact person] from clients

--3) Display the records from customers table ranging Customers ids from 20 to 40.

select client\_id,client\_name,contact,Nation,cities from clients where client\_ID between 20 and 40

--4)

select client\_id,client\_name,contact,nation,cities from clients where cities='Tokyo' or cities ='Oslo' or cities='Beirut'

--5)Display the records from customers table of Persons who contains A in their name at 4th Position.

select \* from clients where Client\_NAME like '\_\_\_a%'

--6)Perform a query of those who dont belong to the city uk and rome

select client\_name,nation from clients where Nation not in ('UK','Rome')

--lab04 queries

--1) Write a Query using “As” for extracting specific data from a Table.

select Worker\_ID as ID,Worker\_name as Employee,designation as Position from Management

--2) Write a Query using “Update” for Changing specific data from a Table.

update [Items\_Catalogue] set stock\_available = 26 where Product\_ID =15

--3) Write a Query using “Like” for fetching specific data from a Table.

select client\_name from clients where client\_name like '%s'

--4) Write a Query using “Where” for fetching specific data from a Table.

select \* from clients where Contact\_Designation='programmer'

-- lab 05 queries

--1)Write a query to order employee first name in Descending Order.

select client\_name from clients order by Client\_NAME desc

--2)Display the highest, lowest, sum and average UnitPrice of each Category. Label column as CategoryId,

--Maximum, Minimum, Sum and Average, respectively. Round your results to the nearest whole number. (Table: Products)

select Category\_ID,floor(max(price)) as Maximum,floor(min(price)) as minimum,floor(sum(price)) as sum,floor(AVG(price)) as average from Items\_Catalogue group by Category\_ID

--3)Display the highest, lowest, sum and average UnitPrice of each Category, where highest UnitPrice lies in

--the range of 50$ to 100$. Label column as CategoryId, Maximum, Minimum, Sum and Average, respectively. (Table: Products)

select Category\_ID,floor(max(price)) as Maximum,floor(min(price)) as minimum,floor(sum(price)) as sum,floor(AVG(price)) as average from Items\_Catalogue where Price between 50 and 100 group by Category\_ID

--4)From customers table, Count all customers is each region where region is not null. (Table: Customers)

select region,count(region) as [employees whom belong to this region] from clients where region is not null group by Region

--5)Write a query to display the number of ContactName with same ContactTitle. Sort contact title in descending order. (Table: Customers)

select Contact\_Designation,Contact from clients order by Contact\_Designation desc

--6)Write a query that count all orders against each product id. No of orders should be greater than 50. (Table: [Order Details])

select Product\_ID,count(Quantity) as [total orders by each product\_id] from Deliveries where Product\_ID in (select Product\_ID from Deliveries group by Product\_ID having count(Quantity) > 3) group by Product\_ID

--7)How many people are in each unique city in the employee table that have more than one person in the

--city? Select the city and display the number of how many people are in each if it's greater than 1.(Table: Employees)

select city,count(city) as [People living in each unique city more than 1] from management where city in (select city from management group by city having count(city) > 1) group by city

--8)List only those cities in which more than or equals to 2 employees are living.

select distinct city from management where city in (select city from management group by city having count(city)>=2)

--9)From the [Order Details] table, select the Product’s id , maximum price and minimum price for each specific

--product in the table, sort the list by product id in ascending order

select product\_id,max(shipment\_price) as [Maximum Price],min(shipment\_price) as [Minimum Price] from Deliveries group by Product\_ID order by Product\_ID asc

--10)Retrieve the number of employees in each city in which there are at least 2 employees.

select city,count(city) as [Employees living in a city at least two] from management where city in (select city from management group by city having count(city)<=2 )group by city

--11)Find the product name, maximum price and minimum price of each product having maximum price greater than 20.00 $. Order by maximum price.

select item\_name , max(price) as [Maximum Price],min(price) as [Minimum Price] from [items\_Catalogue] where price > 20 group by item\_name order by max(price)

--12)Find the number of sales representatives in each city that contains at least 2 sales representatives. Order by the number of employees

select City,count(designation) as [no of employees with mentioned designation at least 2] from management where designation='Accounts Manager'

and city in (select city from management group by city having count(city)<=2) group by city order by count(worker\_id)

--13)From customers table, Count all customers in each region whose contactname contains manager and region is not null. (Table: Customers)

select count(Client\_ID) as [Peoples having manager along their contact title whose region is not null ],Client\_NAME from clients where contact\_designation like '%Manager' And region is not null group by Region,Client\_NAME

-- lab 06

--1)Write a query to list the names of employees that belongs to the same location as the employee named Nancy.

select worker\_name,city from management where worker\_name = 'Kerry Wilson' -- select a.worker\_name,b.worker\_name,a.city,b.City from management a,management b where a.City=b.City and a.Worker\_Name = 'kery Wilson'

--2)Write a query to list the name of employees in front of the names of their mangers.

select Worker\_name,designation from management where designation like '%Manager'

--4)Write a query to display the following records of all the customers along with their order details (if any).

select deliveries.Product\_ID as Id ,deliveries.delivery\_id as DID ,clients.client\_name as Name , deliveries.shipment\_price as amount from clients left join deliveries on clients.client\_id=deliveries.client\_id where deliveries.Product\_ID is not null

--5)Write a query to display all the orders placed by a customers.

select delivery\_id as OID,Product\_id as Id,Shipment\_Price as Amount,Quantity ,Discount from deliveries --left join clients on clients.client\_id=deliveries.client\_id

--6)Name the store that offer initial customer discount.

select [Items\_Catalogue].Item\_Name,deliveries.discount from [Items\_Catalogue] inner join deliveries on [Items\_catalogue].product\_id=deliveries.product\_id where discount=42

--7)Name all the employees working in London.

select Worker\_name,city from management where city = 'london'

--8)List the stores of all title.

select [Items\_Catalogue].Item\_name,Category.Item\_Type\_Name from [Items\_catalogue] inner join Category on [Items\_catalogue].Category\_ID=Category.Category\_ID

--lab 07

--1)Find the company’s name that placed order 10290. (Tables : Customers & Orders)

select deliveries.delivery\_id,clients.firm\_name from deliveries inner join clients on deliveries.Client\_ID=clients.client\_id where deliveries.delivery\_id=10282

--2)Find the Companies that placed orders in 1997 (Tables : Customers & Orders)

select deliveries.delivery\_id,clients.firm\_name from deliveries inner join clients on deliveries.Client\_ID=clients.client\_id where deliveries.Delivery\_Date='2012-08-04'

--3)Create a report that shows the product name and supplier id for all products supplied by

--Exotic Liquids, Grandma Kelly's Homestead, and Tokyo Traders. (Tables : Products & Suppliers)

select courier.Supply\_ID,[Items\_Catalogue].Item\_Name from courier inner join [Items\_Catalogue] on [Items\_Catalogue].supply\_id=courier.Supply\_ID where courier.Trade\_Company\_Name='DH Linkers Associates' or courier.Trade\_Company\_Name='Flora vales International Traders' or courier.Trade\_Company\_Name='Confined Traders'

--4)Create a report that shows all products by name that are in the Seafood category. (Tables : Products & Categories)

select courier.Trade\_Company\_Name from courier where supply\_id in (select [Items\_Catalogue].supply\_id from [Items\_Catalogue] join category on (category.Category\_ID=[Items\_Catalogue].category\_id) and category.Item\_Type\_Name='Fashion')

--5)Create a report that shows all companies by name that sell products in CategoryID 8. (Tables : Supplier & Products)

select [Items\_Catalogue].Category\_ID,courier.Trade\_Company\_Name from [Items\_Catalogue] join courier on ([Items\_Catalogue].supply\_id= courier.supply\_id) where Category\_ID = 4 group by [Items\_Catalogue].Category\_ID,courier.Trade\_Company\_Name

--6)Create a report that shows all 5 companies by name that sell products in the Seafood category.(Tables: Suppliers, Products & Categories)

select Courier.Supply\_ID,[Items\_Catalogue].category\_id,Courier.Trade\_Company\_Name

from Category inner join [Items\_Catalogue] on Category.Category\_ID=[Items\_Catalogue].Category\_ID

inner join Courier on [Items\_Catalogue].supply\_id=Courier.Supply\_ID where

Category.Category\_ID=8 group by

Category.Category\_ID,Courier.Supply\_ID,Courier.Trade\_Company\_Name,[Items\_Catalogue].category\_id

--7)Write query using a “sub query” to display which Customers were served by which Employee use Northwind

select clients.client\_id as customers\_id,clients.client\_Name as customer ,Management.worker\_name as serving\_employee from

clients,management where clients.contact\_designation=management.designation

--11)Write query using a “sub query” to give the customer id and amount spent of the customer who spent the most using Northwind

select clients.client\_id,max([Items\_Catalogue].price) as [Most Amount spent by a Client] from clients inner join Deliveries on clients.client\_id=deliveries.Client\_ID

inner join [Items\_Catalogue] on [Items\_Catalogue].product\_id=deliveries.Product\_ID group by clients.client\_id order by max([Items\_Catalogue].price) desc

--12)Write query using a “sub query” to list all Northwind customers who have not placed an order.

(select client\_id,client\_name from clients) except (select client\_id,client\_name from

clients where client\_id in (select Deliveries.Client\_ID from Deliveries))

ALTER TABLE computer\_science ADD last\_name VARCHAR(50);

Not drop table category

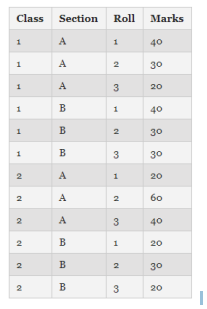
drop database milkyway

Retrieve Salary by country along with grand total by rollup Query:

SELECT Country,SUM(salary)as TotalSalary FROM Employees group by rollup(Country)

Create the following table given below and generate the output applying rollup query: =

Table name: result



Query:

SELECT Class,Section,SUM(MARKS)AS MARKS FROM Result GROUP BY ROLLUP(Class,Section)

Write a query to retrieve Sum of Salary grouped by all combinations of the following 2 columns as well as Grand Total. Country, Gender?

Query: =

SELECT Country,Gender,SUM(salary)asTotalSalary FROM Employeesgroupby cube(Country,Gender)

Generate the output applying cube query:

Query:

SELECT Class,Section,SUM(MARKS)AS MARKS FROM Result GROUP BY CUBE(Class,Section)