

GOKHALE EDUCATION SOCIETY'S



**N. B. MEHTA (V) SCIENCE COLLEGE**

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**DEPARTMENT OF INFORMATION TECHNOLOGY  
AND  
COMPUTER SCIENCE**

# Certificate

Class \_\_\_\_\_

Year \_\_\_\_\_

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Shri/Kumari \_\_\_\_\_

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Uni. Exam No. \_\_\_\_\_ has satisfactorily completed the required number of  
practical and worked for the 1st term / 2nd term/ both the terms of the Year  
\_\_\_\_\_ in the college laboratory as laid down by the university.

\_\_\_\_\_  
Head of the  
Department

\_\_\_\_\_  
External  
Examiner

\_\_\_\_\_  
Internal Examiner  
Subject teacher

Date :        /        / 2022        Department of IT-CS

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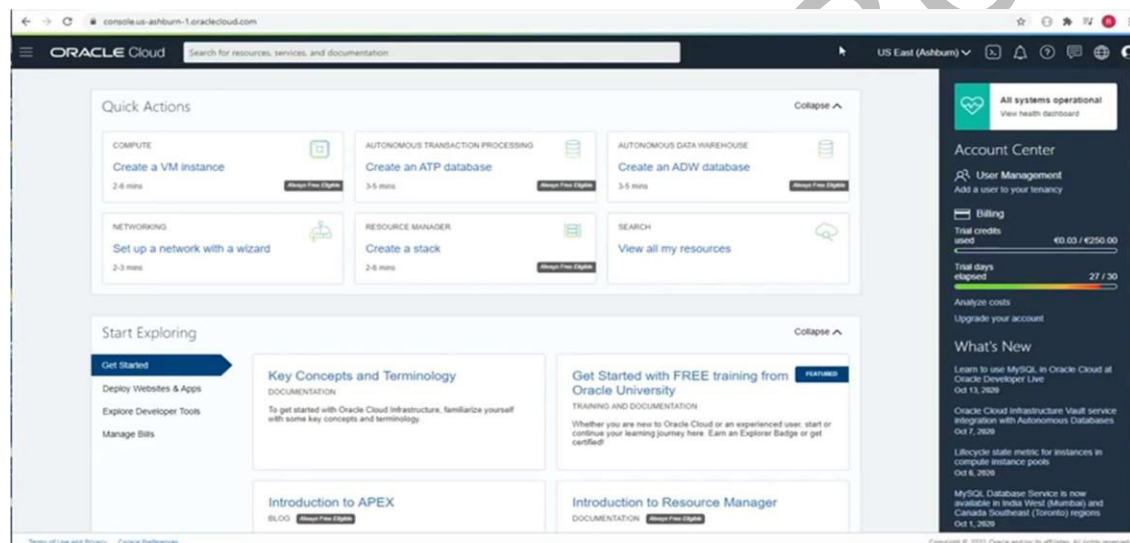
# ADVANCED DATABASE TECHNIQUES PRACTICAL

## Practical No. 1

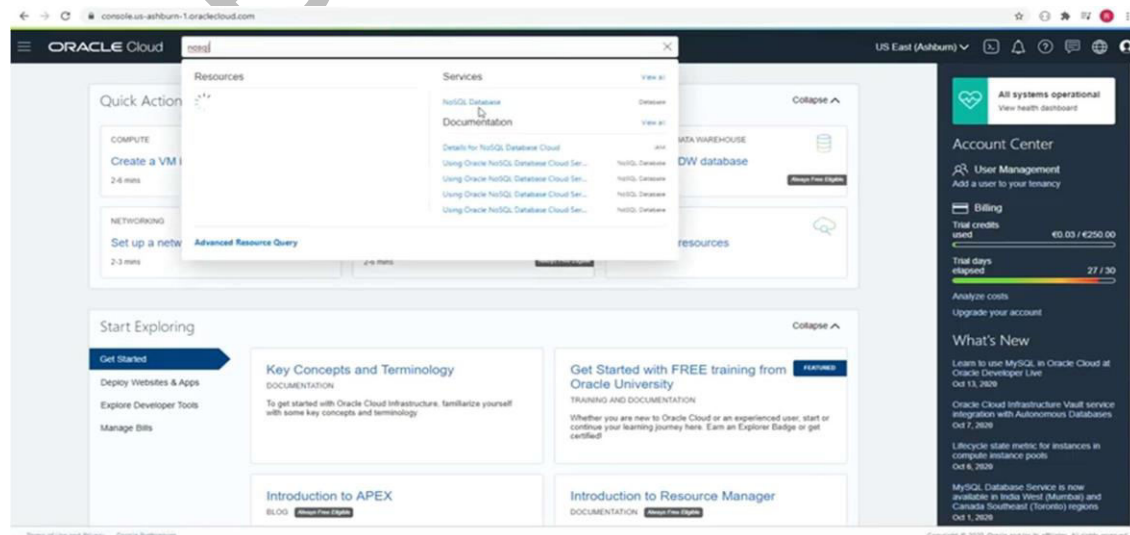
Create different types that include attributes and methods. Define tables for these types by adding a sufficient number of tuples. Demonstrate insert, update and delete operations on these tables. Execute queries on them.

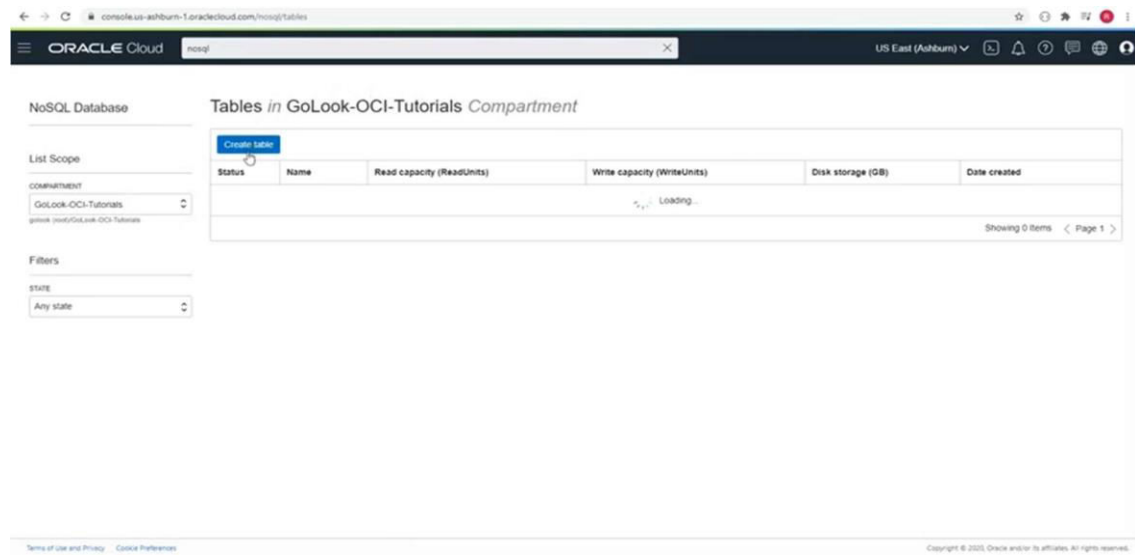
### Solution :

**Step 1 :** Start → [www.oracle.com](http://www.oracle.com) → Sign in OR Sign up

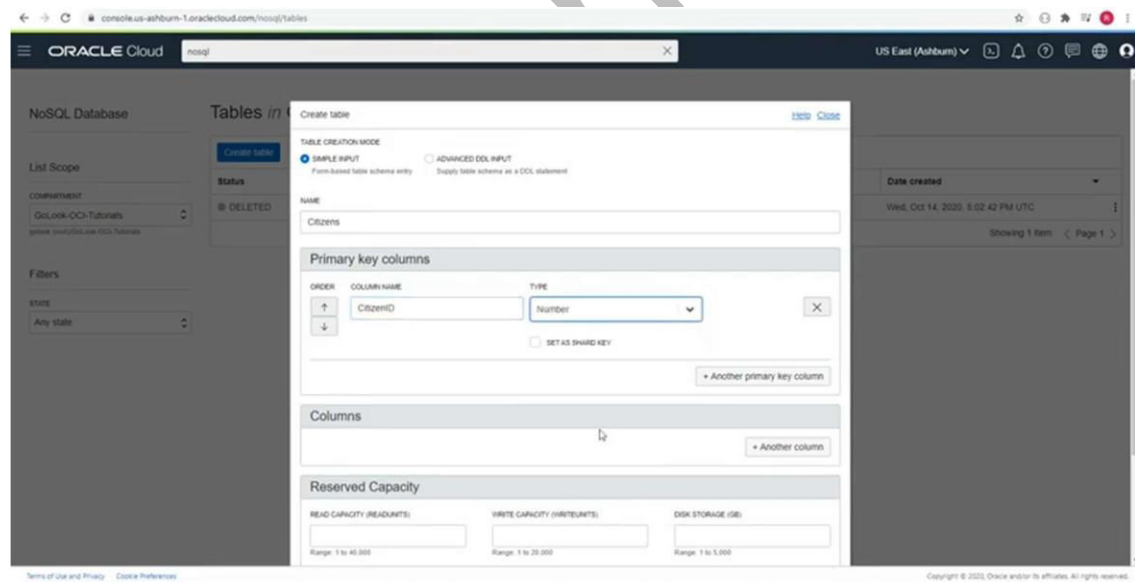


**Step 2 :** In search box, type Nosql and in services select Nosql database



**Step 3 :** Click on Create Table.**Step 4 :** Mention Name of Table and create columns as required.

Type name of columns and their data types in respective box.



Oracle Cloud console: `console.us-ashburn-1.oraclecloud.com/noSQL/tables`

US East (Ashburn)

### NoSQL Database

Tables in **citizens**

Status: **DELETED**

Filters: state: Any state

#### Primary key columns

ORDER	COLUMN NAME	TYPE
1	CitizenID	Number

☐ SET AS SHARD KEY

+ Another primary key column

#### Columns

+ Another column

#### Reserved Capacity

READ CAPACITY (READUNITS)	WRITE CAPACITY (WRITEUNITS)	DISK STORAGE (GB)
Range: 1 to 40,000	Range: 1 to 20,000	Range: 1 to 5,000

[Show advanced options](#)

**Create table**

Oracle Cloud console: `console.us-ashburn-1.oraclecloud.com/noSQL/tables`

US East (Ashburn)

### NoSQL Database

Tables in **citizens**

Status: **DELETED**

Filters: state: Any state

#### Columns

COLUMN NAME	TYPE
Name	String

DEFAULT VALUE: OPTIONAL ☐ VALUE IS NOT NULL

+ Another column

#### Reserved Capacity

READ CAPACITY (READUNITS)	WRITE CAPACITY (WRITEUNITS)	DISK STORAGE (GB)
Range: 1 to 40,000	Range: 1 to 20,000	Range: 1 to 5,000

[Show advanced options](#)

**Create table**

Oracle Cloud console: `console.us-ashburn-1.oraclecloud.com/noSQL/tables`

US East (Ashburn)

### NoSQL Database

Tables in **citizens**

Status: **DELETED**

Filters: state: Any state

#### Columns

COLUMN NAME	TYPE
Name	String
Surname	String

DEFAULT VALUE: OPTIONAL ☐ VALUE IS NOT NULL

+ Another column

#### Reserved Capacity

READ CAPACITY (READUNITS)	WRITE CAPACITY (WRITEUNITS)	DISK STORAGE (GB)
Range: 1 to 40,000	Range: 1 to 20,000	Range: 1 to 5,000

[Show advanced options](#)

**Create table**

Oracle Cloud console showing the 'Create table' form. The form is for a table named 'Citizens' in the 'GoLook-OCI-Tutorials' compartment. The columns are 'Surname' (String) and 'Age' (Number). The 'Reserved Capacity' section shows Read capacity (ReadUnits) set to 1, Write capacity (WriteUnits) set to 1, and Disk storage (GB) set to 1. The 'Create table' button is highlighted.

Table is created.

Oracle Cloud console showing the 'Tables in GoLook-OCI-Tutorials Compartment' table. The table lists two tables: 'Citizens' (Status: CREATING) and 'hello\_world' (Status: DELETED). The 'Citizens' table is highlighted.

Status	Name	Read capacity (ReadUnits)	Write capacity (WriteUnits)	Disk storage (GB)	Date created
CREATING	Citizens	0	0	0	Wed, Oct 14, 2020, 5:16:55 PM UTC
DELETED	hello_world	0	0	0	Wed, Oct 14, 2020, 5:02:42 PM UTC

Oracle Cloud console showing the 'Tables in GoLook-OCI-Tutorials Compartment' page. The 'Citizens' table is highlighted in blue. A notification at the top right says 'The table Citizens will be created'.

Status	Name	Read capacity (ReadUnits)	Write capacity (WriteUnits)	Disk storage (GB)	Date created
ACTIVE	<a href="#">Citizens</a>	1	1	1	Wed, Oct 14, 2020, 5:16:56 PM UTC
DELETED	hello_world	0	0	0	Wed, Oct 14, 2020, 5:02:42 PM UTC

Showing 2 items < Page 1 >

**Step 5 : Click on Table Name.**

Oracle Cloud console showing the 'Tables in GoLook-OCI-Tutorials Compartment' page. The 'Citizens' table is highlighted in blue. A notification at the top right says 'The table Citizens will be created'.

Status	Name	Read capacity (ReadUnits)	Write capacity (WriteUnits)	Disk storage (GB)	Date created
ACTIVE	<a href="#">Citizens</a>	1	1	1	Wed, Oct 14, 2020, 5:16:56 PM UTC
DELETED	hello_world	0	0	0	Wed, Oct 14, 2020, 5:02:42 PM UTC

Showing 2 items < Page 1 >

Oracle Cloud console showing the 'Table information' page for the 'Citizens' table. The table is highlighted in blue. A notification at the top right says 'The table Citizens will be created'.

**Table information**

OCID: ...  
 Compartment: GoLook-OCI-Tutorials  
 Date created: 2020-10-14T17:16:56.478Z  
 Time to live (Days):  
 Read capacity (ReadUnits): 1  
 Write capacity (WriteUnits): 1  
 Disk storage (GB): 1

**Columns**

Primary key	Column name	Type	Shared key	Not null
Yes	CitizenID	NUMBER	Yes	Yes
No	Name	STRING	No	No
No	Surname	STRING	No	No
No	Age	NUMBER	No	No


Showing 4 items

**Step 6 :** To insert rows , click on Insert Row from above option.

The screenshot displays the Oracle Cloud console interface for a table named 'Citizens'. At the top, a navigation bar shows the Oracle Cloud logo and a search bar. Below the navigation bar, a breadcrumb trail indicates the path: 'NoSQL > Tables > Citizens Details'. A green notification banner at the top right states 'The table Citizens will be created'. The main content area features a large green circle with a white 'T' icon representing the table. To the right of the icon, the table name 'Citizens' is displayed. Below the name, there are buttons for 'Insert row', 'View table DDL', 'Edit', 'Move table', and 'More Actions'. The 'Table information' tab is selected, showing details such as OCID, Compartment, Date created, Time to live, Read capacity, Write capacity, and Disk storage. The 'Table rows' tab is also visible, showing a query: 'SELECT \* FROM Citizens'. A 'Run query' button is located below the query input field. The left sidebar contains a 'Resources' section with links to 'Columns', 'Indexes', 'Table rows', and 'Metrics'. The bottom of the screen shows a footer with copyright information and a disclaimer.

The screenshot shows the Oracle Cloud console interface. On the left, there's a sidebar with 'ORACLE Cloud' and 'Table rows' selected. The main area displays the 'Citizens' table. A modal window titled 'Insert row' is open, showing fields for 'CITIZENID', 'NAME', 'SURNAME', and 'AGE'. The 'CITIZENID' field is highlighted with a red box, and the 'Insert row' button is also highlighted with a red box. A green checkmark and message 'The table Citizens will be created' are visible in the top right corner.

### Step 7 : Run Queries.



The screenshot shows the Oracle Cloud console interface. On the left, there's a navigation menu with 'Table rows' highlighted. The main content area shows the 'Table rows' section for a table named 'CITIZENS'. The table has two columns: 'CITIZENID' and 'NAME'. Two rows are displayed: (2, 'Mark Johnson') and (1, 'John Doe'). The 'Table rows' section is highlighted with a red box.



**Table information**

OCID: vn75retuna Show Copy  
 Compartment: GOLook-OCI-Tutorials  
 Date created: 2020-10-14T17:16:56.476Z  
 Time to live (Days):  
 Read capacity (ReadUnits): 1  
 Write capacity (WriteUnits): 1  
 Disk storage (GB): 1

**Table rows**

QUERY: `SELECT * FROM Citizens WHERE CitizenID = 2`

Run query

Query results do not automatically update when the table is modified. To observe changes, you must run a new query.

CitizenID	Name	Surname	Age
2	Mark	Johnson	42

Showing 1 item < Page 1 >

## Step 8 : To Update Table

**Table rows**

QUERY: `SELECT * FROM Citizens`

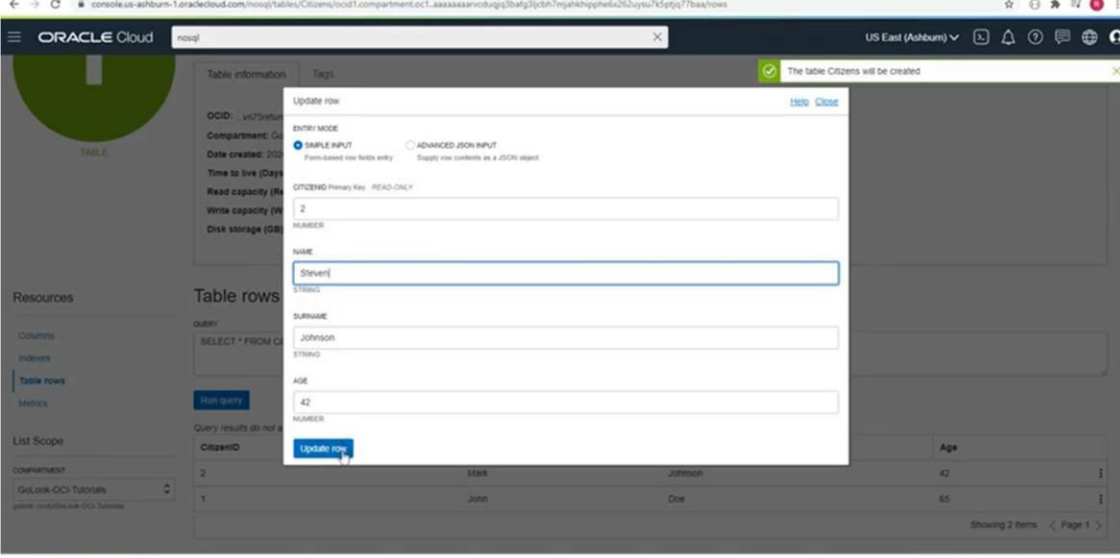
Run query

Query results do not automatically update when the table is modified. To observe changes, you must run a new query.

CitizenID	Name	Surname	Age
2	Mark	Johnson	42
1	John	Doe	65

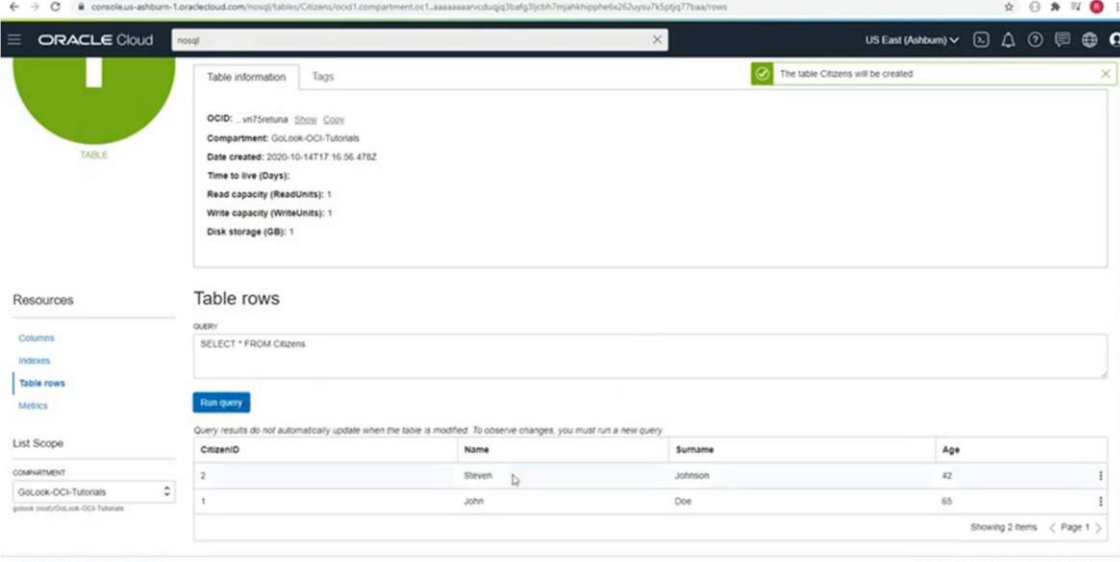
Showing 2 items < Page 1 >

Download JSON  
 Update  
 Delete



The screenshot shows the Oracle Cloud console interface. On the left, there's a sidebar with 'Resources' and 'List Scope'. The main area displays 'Table information' and 'Table rows'. A modal window titled 'Update row' is open, showing fields for 'Name', 'Surname', and 'Age'. The 'Name' field is filled with 'Steven'. The 'Update row' button is highlighted. A notification at the top right says 'The table Citizens will be created'.

After updating



The screenshot shows the Oracle Cloud console interface after updating. The 'Table rows' section is visible, showing a table with columns 'CitizenID', 'Name', 'Surname', and 'Age'. The table contains two rows: one with 'Steven' as the name and '42' as the age, and another with 'John' as the name and '65' as the age. A notification at the top right says 'The table Citizens will be created'.

Step 9 : For deleting row.

The screenshot displays the Oracle Cloud console interface. On the left, a sidebar contains navigation links: 'Resources', 'Columns', 'Indexes', 'Table rows' (highlighted), and 'Metrics'. Below this is a 'List Scope' section with a dropdown menu set to 'Global-OCI-Tutorials'. The main content area is divided into two tabs: 'Table information' and 'Tags'. The 'Table information' tab is active, showing details for a table named 'CITIZENS'. A green notification banner at the top right states 'The table CITIZENS will be created'. The table details include: OCID: vnf7xvuna-8808-0000, Compartment: Global-OCI-Tutorials, Date created: 2020-10-14T17:16:56.478Z, Time to live (Days):, Read capacity (ReadUnits): 1, Write capacity (WriteUnits): 1, and Disk storage (GB): 1. Below the table information, the 'Table rows' section shows a query 'SELECT \* FROM CITIZENS' and a 'Run query' button. A note states: 'Query results do not automatically update when the table is modified. To observe changes, you must run a new query.' The query results are displayed in a table with columns: CitizenID, Name, Surname, and Age. The results show two rows: (2, Steven, Johnson, 42) and (1, John, Doe, 65). To the right of the table, there are buttons for 'Download JSON', 'Update row', and 'Delete row'. The 'Delete row' button is highlighted with a red circle. At the bottom of the console, there are links for 'Terms of Use and Privacy' and 'Change Preferences'. A large, diagonal watermark 'N.B.Mehtha Bora' is overlaid across the entire page.

Oracle Cloud

Table information

Tags

The table CITIZENS will be created

OCID: vnf7xvuna-8808-0000  
Compartment: Global-OCI-Tutorials  
Date created: 2020-10-14T17:16:56.478Z  
Time to live (Days):  
Read capacity (ReadUnits): 1  
Write capacity (WriteUnits): 1  
Disk storage (GB): 1

Resources

Columns

Indexes

Table rows

Metrics

List Scope

Global-OCI-Tutorials

Global-OCI-Tutorials

Table rows

Query

SELECT \* FROM CITIZENS

Run query

Query results do not automatically update when the table is modified. To observe changes, you must run a new query.

CitizenID	Name	Surname	Age
2	Steven	Johnson	42
1	John	Doe	65

Download JSON

Update row

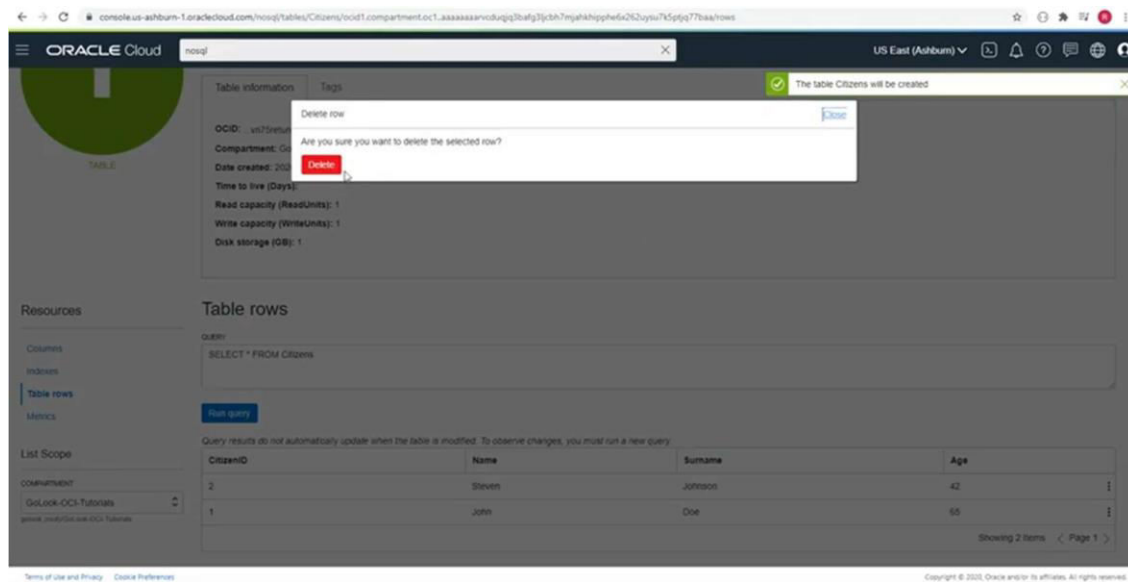
Delete row

Showing

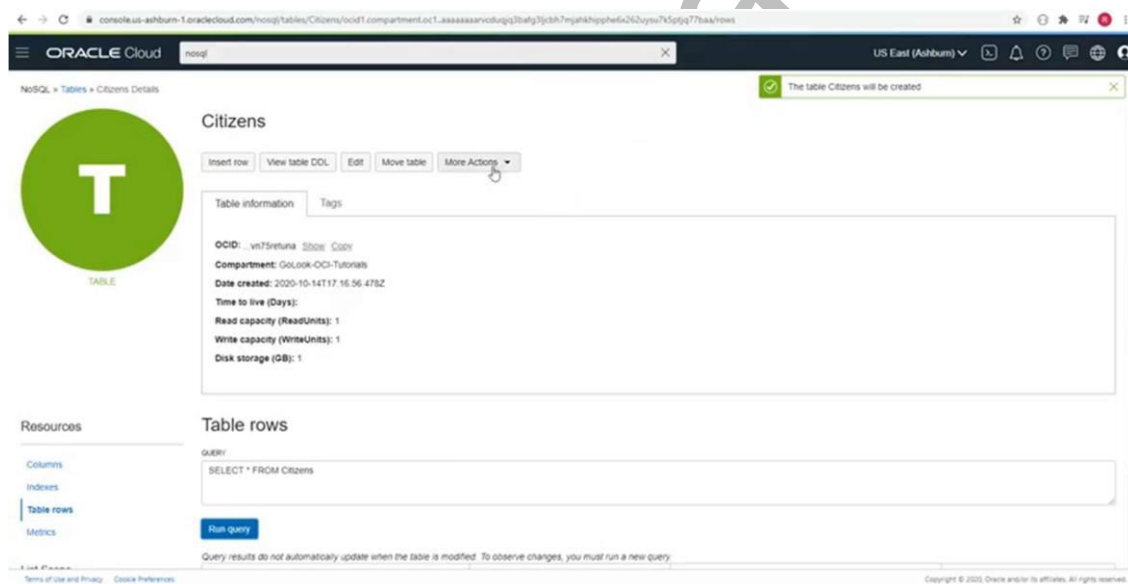
Terms of Use and Privacy

Change Preferences

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**Step 10 : For deleting Table**



Oracle Cloud console showing the details of a table named 'Citizens' in the 'GoLook-OCI-Tutorials' compartment. The table is in the 'US East (Ashburn)' region. The table information shows it was created on 2020-10-14T17:15:56.475Z, with a time to live of 1 day, and read/write capacities of 1 unit each. The disk storage is 1 GB.

The 'Table rows' section shows a query: `SELECT * FROM Citizens`. A 'Run query' button is present.

A notification at the top right states: 'The table Citizens will be created'.

Oracle Cloud console showing the 'Delete table' dialog box. The dialog asks: 'Are you sure you want to delete the table named "Citizens"?'. The 'Delete' button is highlighted in red.

The background shows the same table details as the previous screenshot, but the 'Delete' button in the 'More Actions' menu is highlighted.

Oracle Cloud console showing the 'Tables in GoLook-OCI-Tutorials Compartment' page. The page displays a list of tables with columns: Status, Name, Read capacity (ReadUnits), Write capacity (WriteUnits), Disk storage (GB), and Date created.

Status	Name	Read capacity (ReadUnits)	Write capacity (WriteUnits)	Disk storage (GB)	Date created
DELETED	Citizens	0	0	0	Wed, Oct 14, 2020, 5:19:51 PM UTC
DELETED	hello_world	0	0	0	Wed, Oct 14, 2020, 5:02:42 PM UTC

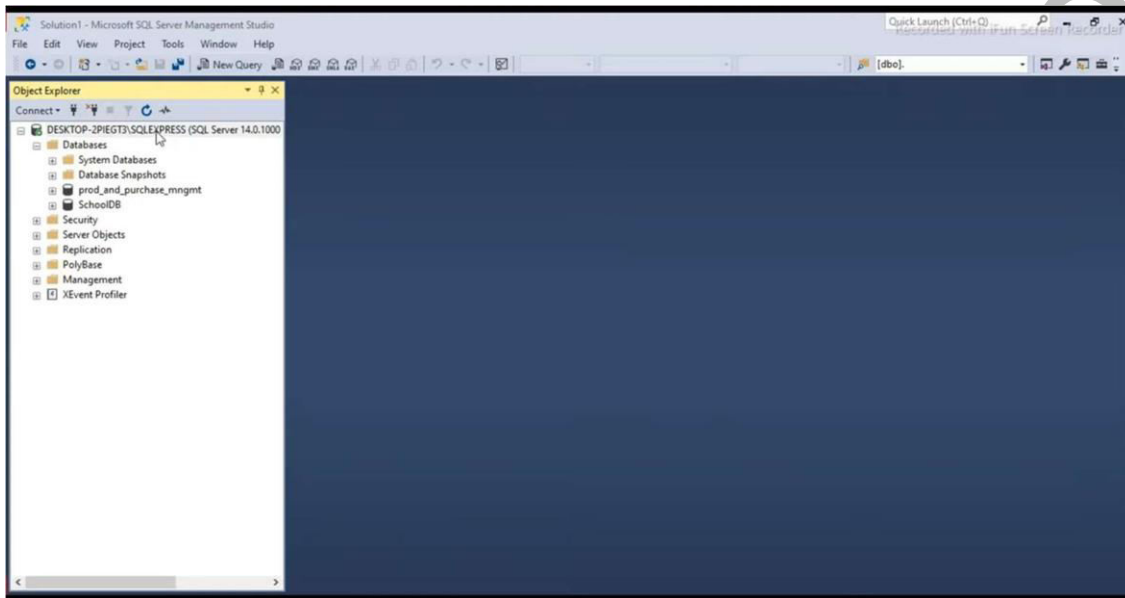
The page shows 2 items and is on Page 1. A notification at the top right states: 'The table Citizens will be created'.

## Practical No 2

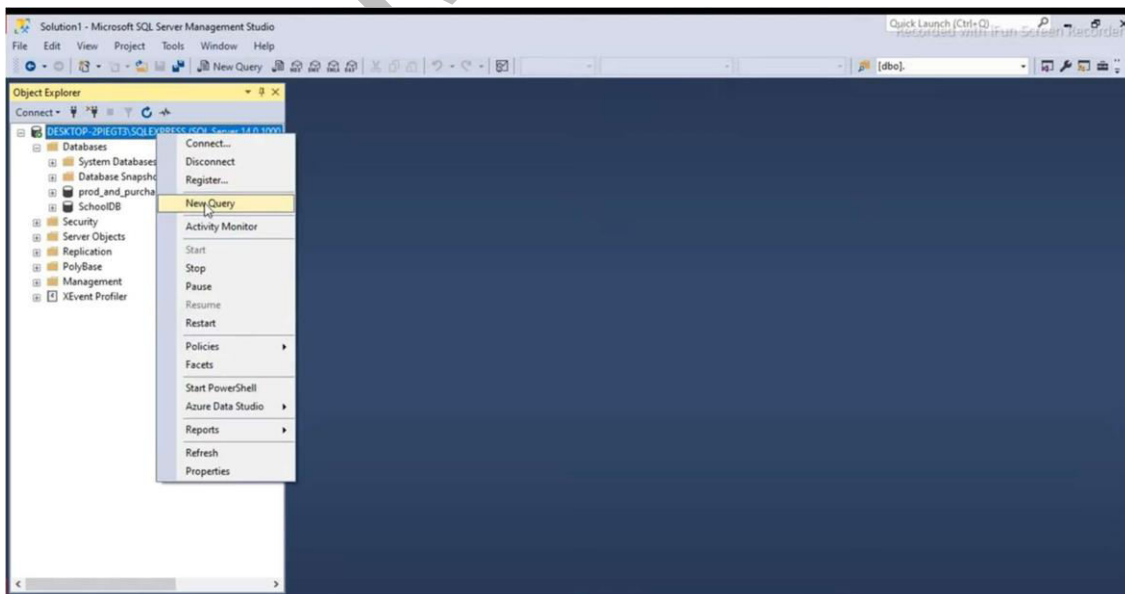
Create an XML database and demonstrate insert, update and delete operations on these tables. Issue queries on it.

**Solution :**

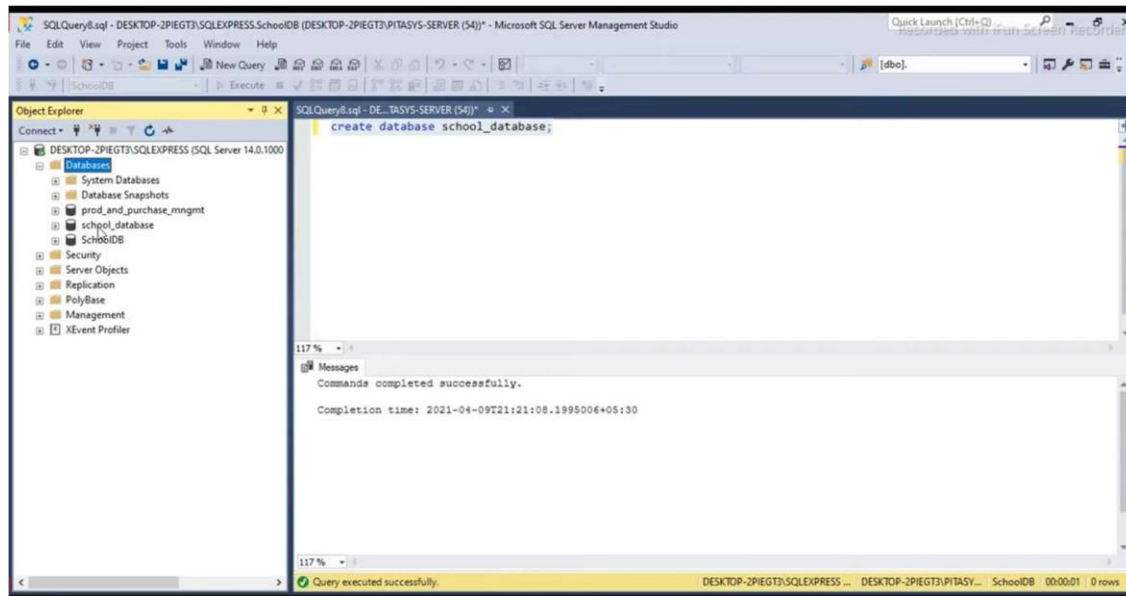
**Step 1 :** Open Microsoft SQL Server Management Studio.



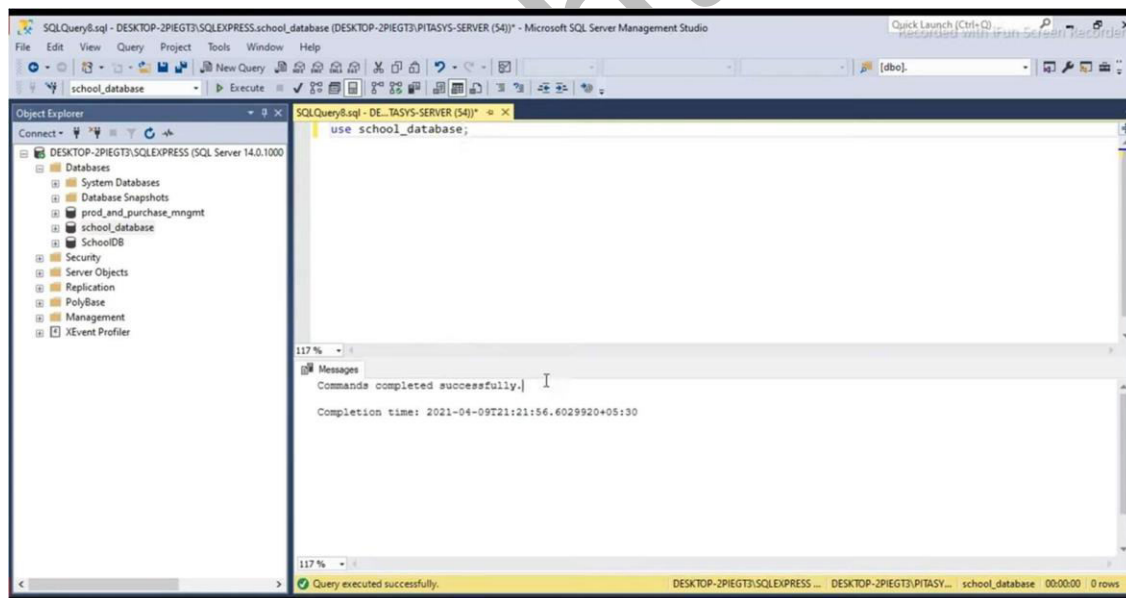
**Step 2 :** Right click on Device name and then select New Query.



**Step 3 :** To create database, pass command **create database** and type name of database which you want to create and then execute the query.



**Step 4 :** To create table , first set the database which you want by using **use** command.



**Step 5 :** For creating table , pass command **create table** and name of table.

Create columns as per requirement as shown below .

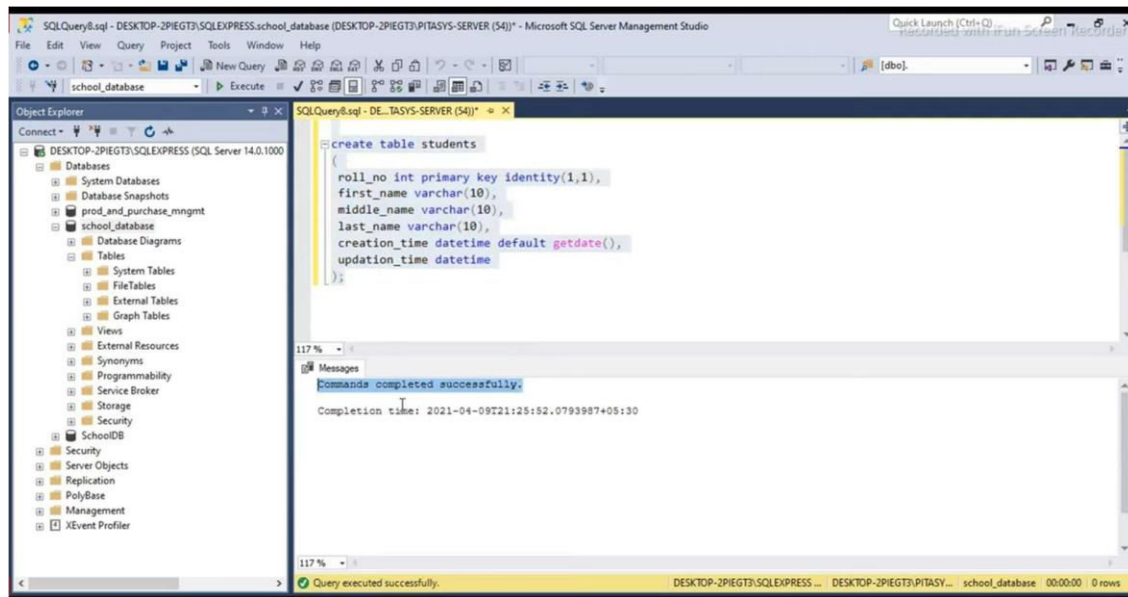
To insert columns write query in round brackets() and execute it.

Eg : **insert into students** (column\_names)

```
values('Lalit');
```

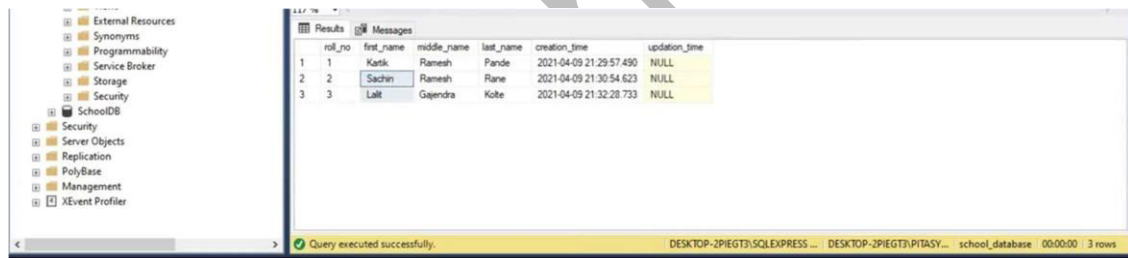
N.B.Mehtha Bordin



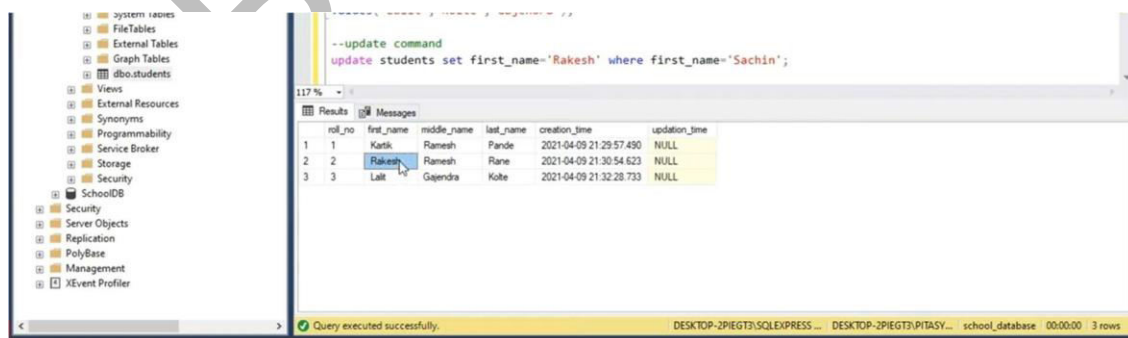


Once you inserted all columns then execute the query , a table is created.

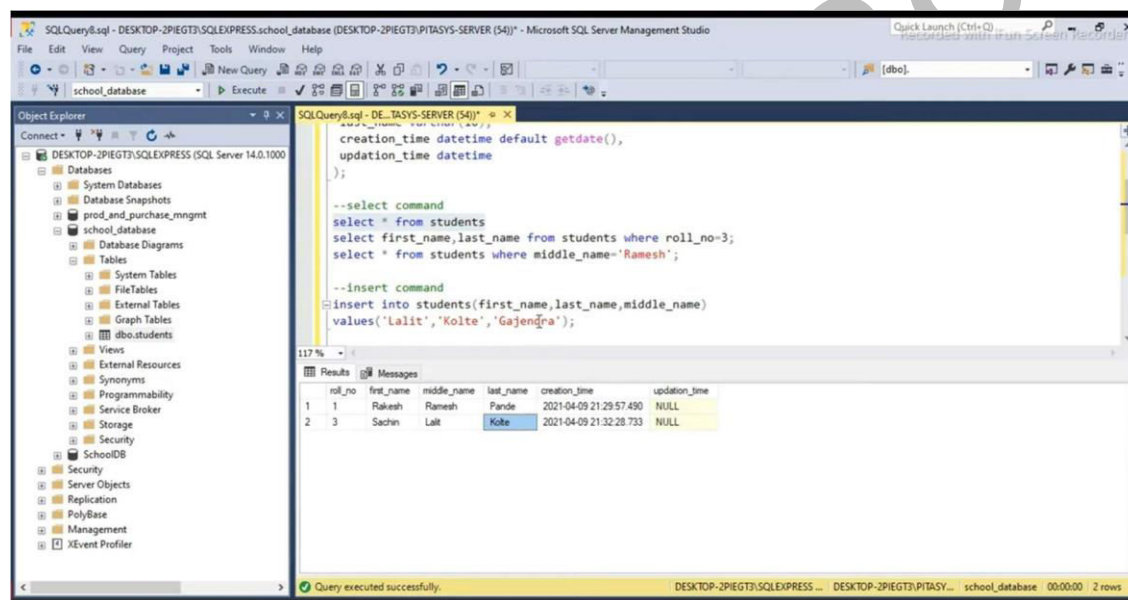
**Step 6 :** To view the table , execute command **select \* from students**



**Step 7 :** To Update table use **update command**.



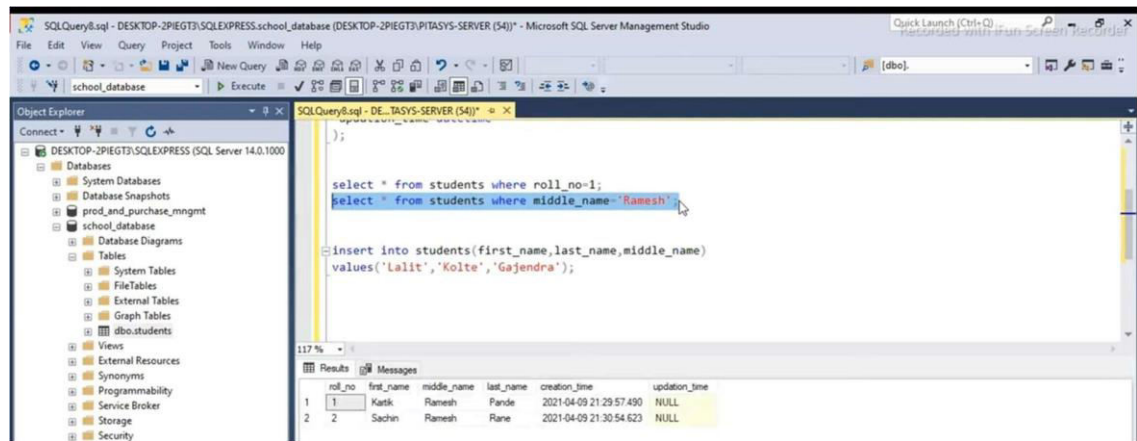
**Step 8 :** To delete column use delete command.



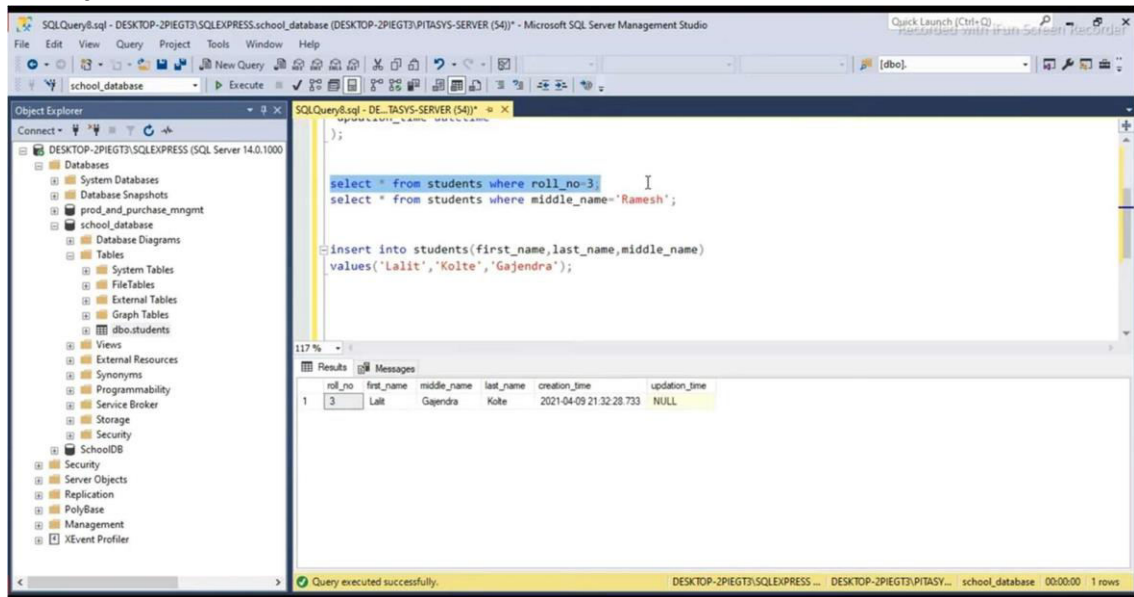
**Step 9 :** For executing queries

For eg :

1. **Select from student where middle\_name= 'Ramesh';**



2. **Select from student where roll no=3;**



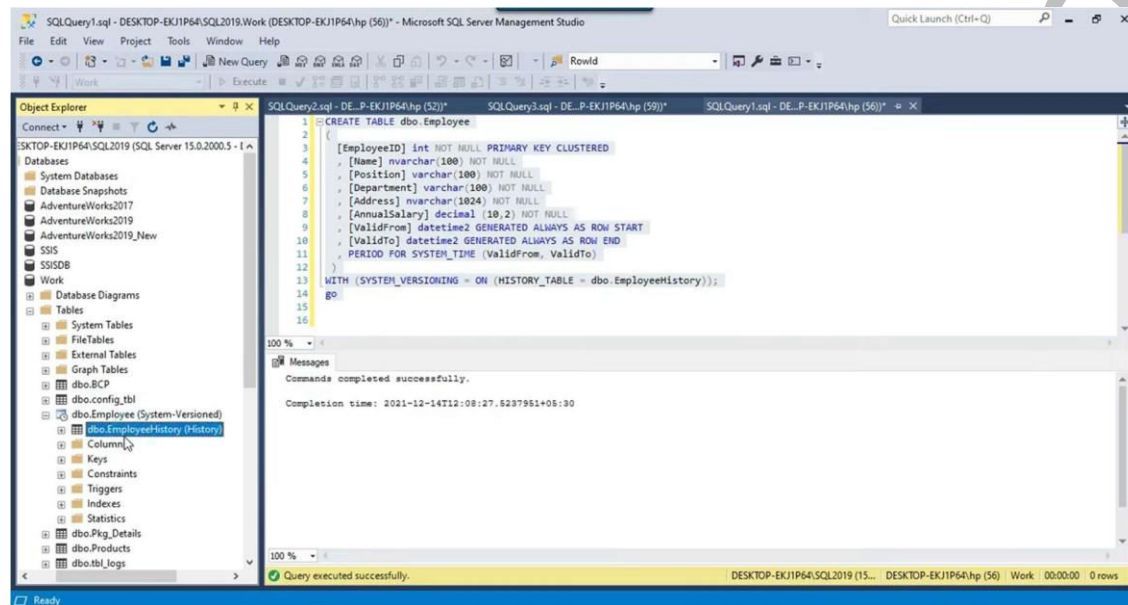
## Practical No 5

Create a temporal database and issue queries on it.

### Solution :

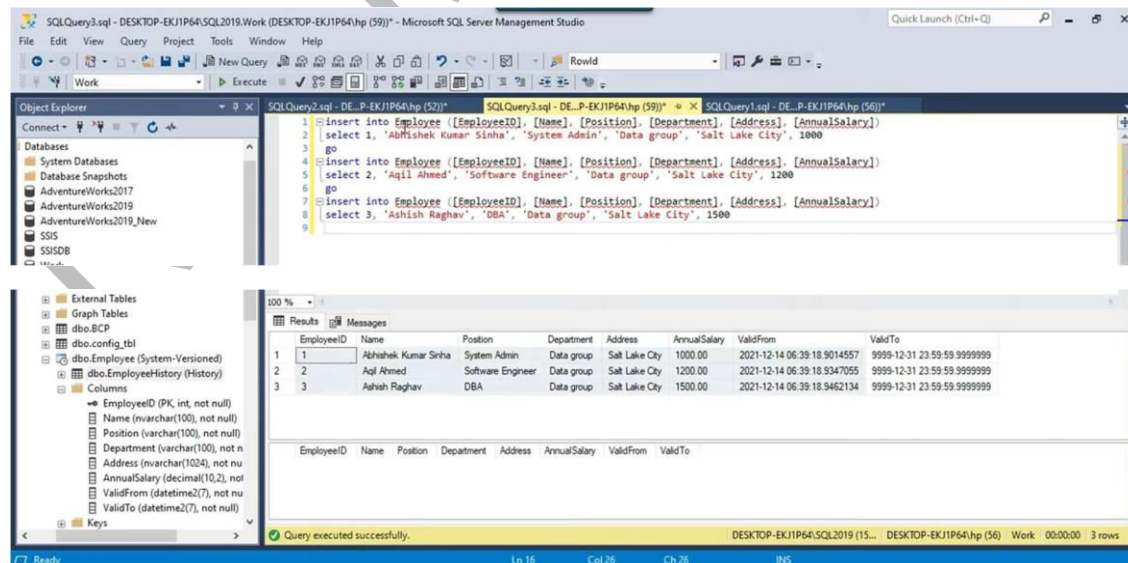
**Step 1 :** Start → Open Microsoft SQL Server Management Studio.

**Step 2 :** Create Temporal table.



System versioned temporal table is created and Employee history table is created as well.

**Step 3 :** Using insert command , insert records in table.



#### Step 4 : To Update temporal table.

The screenshot shows the SQL Server Management Studio interface. The query editor contains the following SQL code:

```

1  [AnnualSalary] decimal (10,2) NOT NULL
2  ,
3  [ValidFrom] datetime2 GENERATED ALWAYS AS ROW START
4  ,
5  [ValidTo] datetime2 GENERATED ALWAYS AS ROW END
6  )
7  ,
8  PERIOD FOR SYSTEM_TIME (ValidFrom, ValidTo)
9  )
10 WITH (SYSTEM_VERSIONING = ON (HISTORY_TABLE = dbo.EmployeeHistory));
11 go
12
13 select * from [dbo].[Employee]
14
15 select * from [dbo].[EmployeeHistory]
16
17 go
18
19 update [Employee]
20 set AnnualSalary=1100
21 where EmployeeID=1
22
23

```

The Results pane shows the following data:

EmployeeID	Name	Position	Department	Address	AnnualSalary	ValidFrom	ValidTo
1	Abhishek Kumar Sinha	System Admin	Data group	Salt Lake City	1100.00	2021-12-14 06:44:30.7312582	9999-12-31 23:59:59.9999999
2	Aql Ahmed	Software Engineer	Data group	Salt Lake City	1200.00	2021-12-14 06:39:18.9347055	9999-12-31 23:59:59.9999999
3	Ashish Raghav	DBA	Data group	Salt Lake City	1500.00	2021-12-14 06:39:18.9462134	9999-12-31 23:59:59.9999999

The status bar indicates "Query executed successfully." and "DESKTOP-EKJ1P64\SQL2019 (15... DESKTOP-EKJ1P64\hp (56) Work 00:00:00 4 rows".

Record is updated.

#### Step 5 : To delete record from temporal table.

The screenshot shows the SQL Server Management Studio interface. The query editor contains the following SQL code:

```

1  [AnnualSalary] decimal (10,2) NOT NULL
2  ,
3  [ValidFrom] datetime2 GENERATED ALWAYS AS ROW START
4  ,
5  [ValidTo] datetime2 GENERATED ALWAYS AS ROW END
6  )
7  ,
8  PERIOD FOR SYSTEM_TIME (ValidFrom, ValidTo)
9  )
10 WITH (SYSTEM_VERSIONING = ON (HISTORY_TABLE = dbo.EmployeeHistory));
11 go
12
13 select * from [dbo].[Employee]
14
15 select * from [dbo].[EmployeeHistory]
16
17 go
18
19 update [Employee]
20 set AnnualSalary=1200
21 where EmployeeID=1
22
23 go
24
25 delete from [Employee] where EmployeeID=2
26
27

```

The Results pane shows the following data:

EmployeeID	Name	Position	Department	Address	AnnualSalary	ValidFrom	ValidTo
1	Abhishek Kumar Sinha	System Admin	Data group	Salt Lake City	1200.00	2021-12-14 06:45:56.1656573	9999-12-31 23:59:59.9999999
3	Ashish Raghav	DBA	Data group	Salt Lake City	1500.00	2021-12-14 06:39:18.9462134	9999-12-31 23:59:59.9999999

The status bar indicates "Query executed successfully." and "DESKTOP-EKJ1P64\SQL2019 (15... DESKTOP-EKJ1P64\hp (56) Work 00:00:00 2 rows".



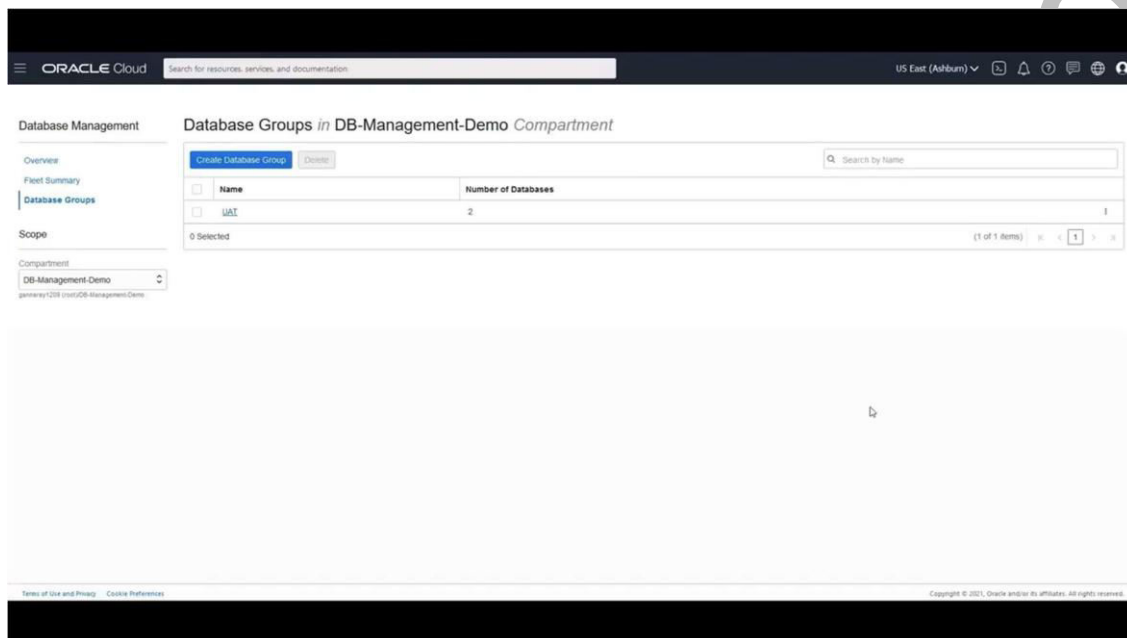
## Practical No 10

Demonstrate the use of data management and operations using NoSQL in the Cloud.

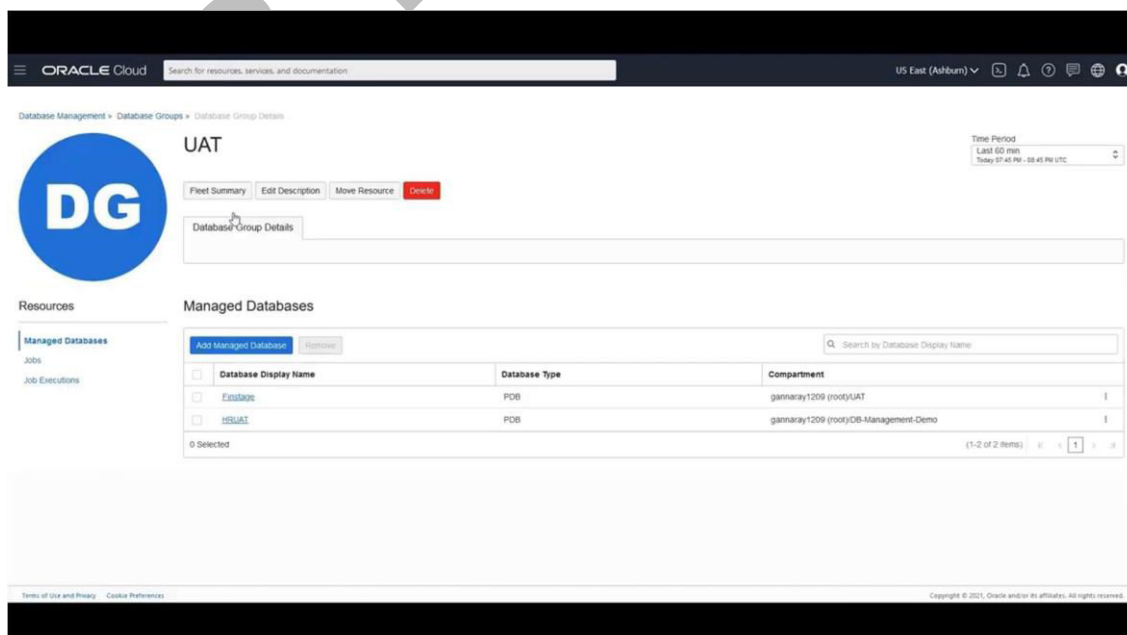
### Solution :

**Step 1 :** : Start → [www.oracle.com](http://www.oracle.com) → Sign in OR Sign up

**Step 2 :** Open database management console.

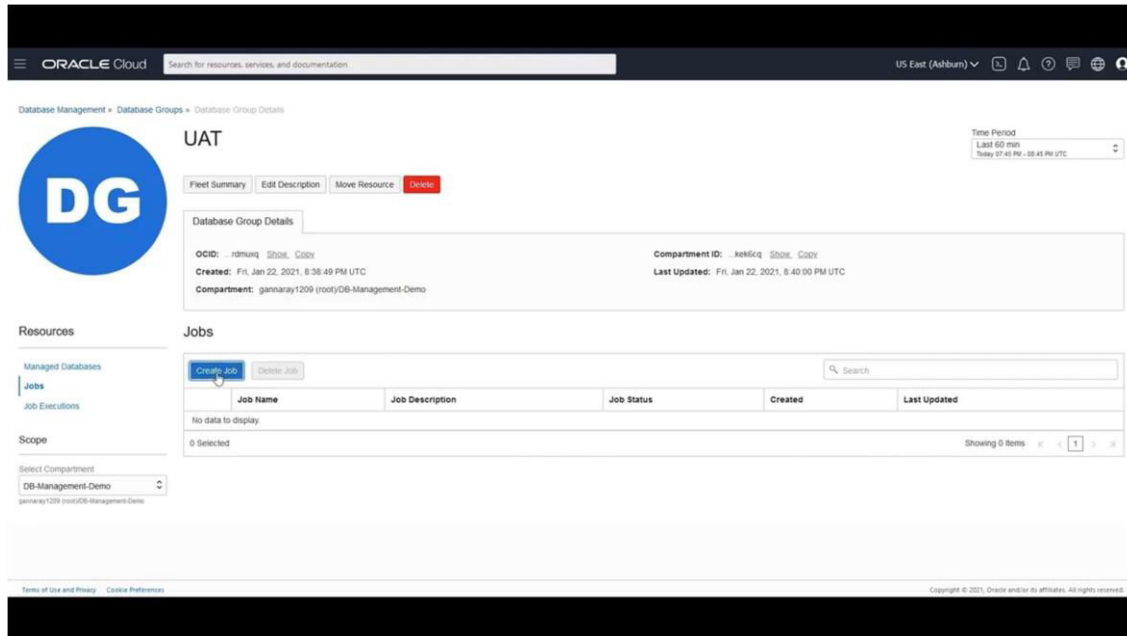
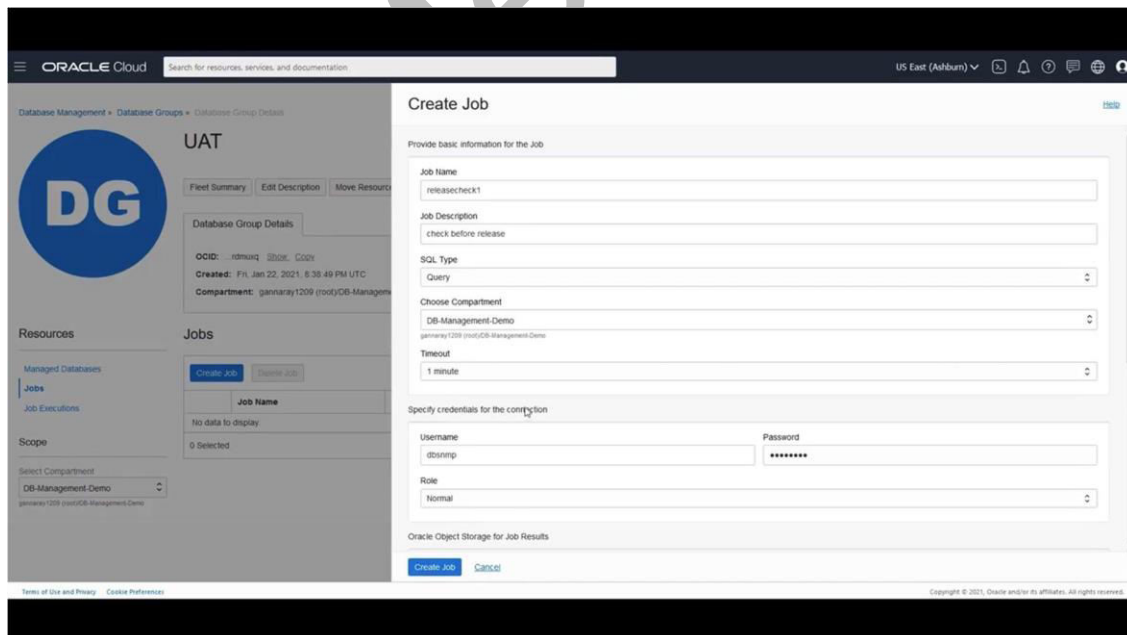


**Step 3 :** Click on UAT database Group.



**Step 4 : To create Job.**

Click on create Job.

**Step 5 : Fill the basic information in the box like Job name , description , SQL type etc.**



ORACLE Cloud

Search for resources, services, and documentation

US East (Ashburn)

Database Management > Database Groups > Database Group Details

UAT

Database Group Details

OCID: ...rmuq Show Copy

Created: Fri, Jan 22, 2021, 8:38:49 PM UTC

Compartment: ganaray1209 (root)DB-Management-Demo

Resources

Managed Databases

Jobs

Job Name

No data to display.

0 Selected

Select Compartment

DB-Management-Demo

ganaray1209 (root)DB-Management-Demo

Specify credentials for the connection

Username: dbnmp Password: masked

Role: Normal

Oracle Object Storage for Job Results

Bucket Name in DB-Management-Demo (Change Compartment): db-management

SQL Command

Load SQL

1: select group\_post FROM parts\_category;

2:

Create Job Cancel

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Job release check has created.

ORACLE Cloud

Search for resources, services, and documentation

US East (Ashburn)

Database Management > Database Groups > Database Group Details

UAT

Database Group Details

OCID: ...rmuq Show Copy

Created: Fri, Jan 22, 2021, 8:38:49 PM UTC

Compartment: ganaray1209 (root)DB-Management-Demo

Resources

Managed Databases

Jobs

Job Name

Job Description

Job Status

Created

Last Updated

releasecheck1

check before release

Active

Fri, 22 Jan, 2021 20:49:17 UTC

Fri, 22 Jan, 2021 20:49:17 UTC

0 Selected

Showing 1 items

Time Period

Last 60 min

Today 07:45 PM - 08:45 PM UTC

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**Step 6 :** To check job execution , click on job name.

ORACLE Cloud Search for resources, services, and documentation US East (Ashburn)

Database Management > Database Group Details > Job Details

## releasecheck1

[Move Job](#) [Delete Job](#)

**Job Details**

Description: check before release  
 Job ID: j25aga [Show](#) [Copy](#)  
 Job Type: SQL  
 Username: dbomp  
 Operation Type: Execute SQL  
 SQL Type: Query

Compartment: [db-management-demo](#)  
 Schedule Type: Immediate  
 Job SQL: [select count\(\\*\) from parts category](#)  
 Created: Fri, 22 Jan, 2021 20:49:17 UTC  
 Last Updated: Fri, 22 Jan, 2021 20:49:46 UTC

**Resources**

[Job Executions](#) [Associated Targets](#)

**Job Executions**

Search by execution name, database name or status

Name	Database Name	Status	Duration	Submitted
<a href="#">releasecheck1_HRUAT_2021-01-22T20:49:25.112Z</a>	<a href="#">HRUAT</a>	Succeeded	13.57 seconds	Fri, 22 Jan, 2021 20:49:25 UTC
<a href="#">releasecheck1_Finstage_2021-01-22T20:49:25.112Z</a>	<a href="#">Finstage</a>	Succeeded	13.57 seconds	Fri, 22 Jan, 2021 20:49:25 UTC

Showing 2 items 1

**Step 7 :** To check job execution output , click on one of the executions.

ORACLE Cloud Search for resources, services, and documentation US East (Ashburn)

Database Management > Database Group Details > Job Execution Details

## releasecheck1\_HRUAT\_2021-01-22T20:49:25.112Z

**Job Execution Details**

Type: SQL  
 Associated Database: [HRUAT](#)  
 Associated Job: [releasecheck1](#)  
 Username: dbomp

Submitted: Fri, 22 Jan, 2021 20:49:25 UTC  
 Duration: 13.57 seconds  
 Results Bucket: [s3://oraclecloud/db-management](#)

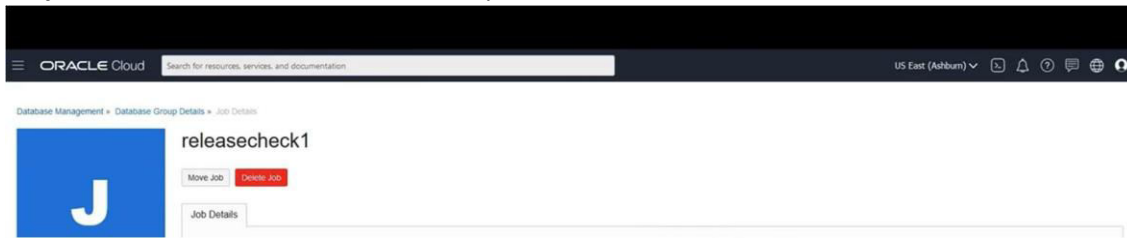
**Job Execution Output** [Download Output](#)

```

1 {
2   "type": "table",
3   "data": [
4     {
5       "P003": 1,
6       "P004": "ELECTRONICS"
7     },
8     {
9       "P003": 2,
10      "P004": "SPORTS"
11    },
12    {
13      "P003": 3,
14      "P004": "HOME"
15    }
16  ]
17 }

```

**Step 8 :** To delete Job , click on above option **Delete Job**.



## Practical No 6

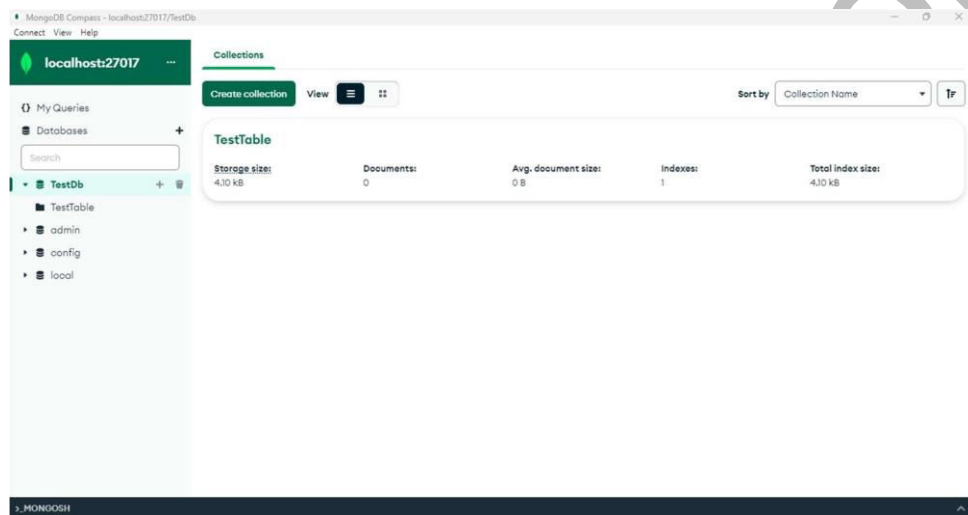
Demonstrate the Accessing and Storing and performing CRUD operations in

1. MongoDB

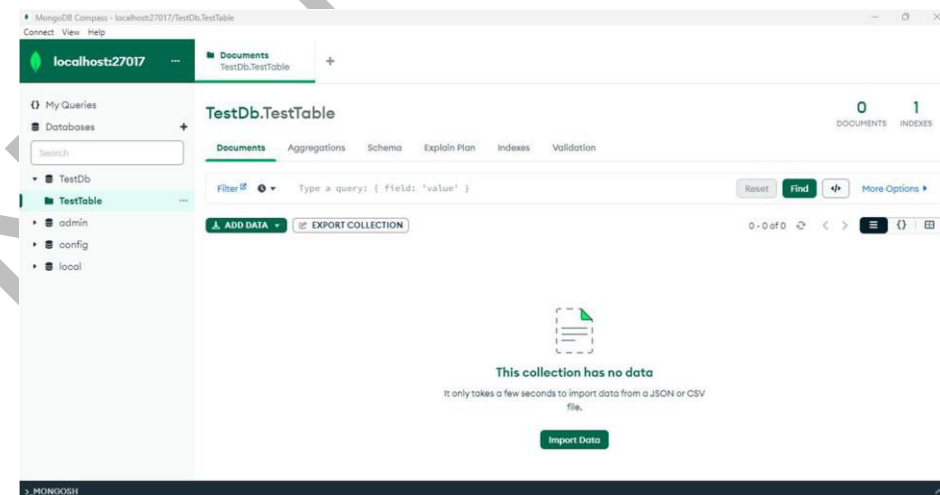
2. Redis

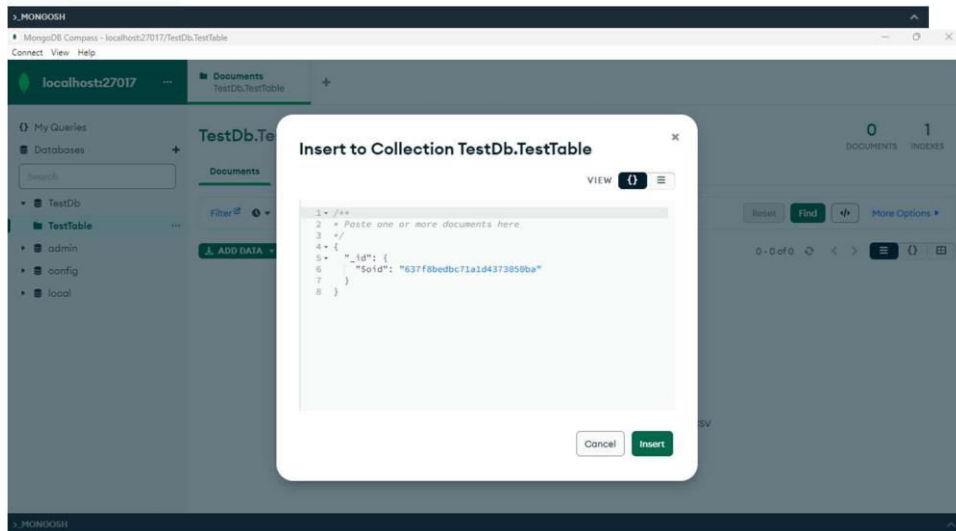
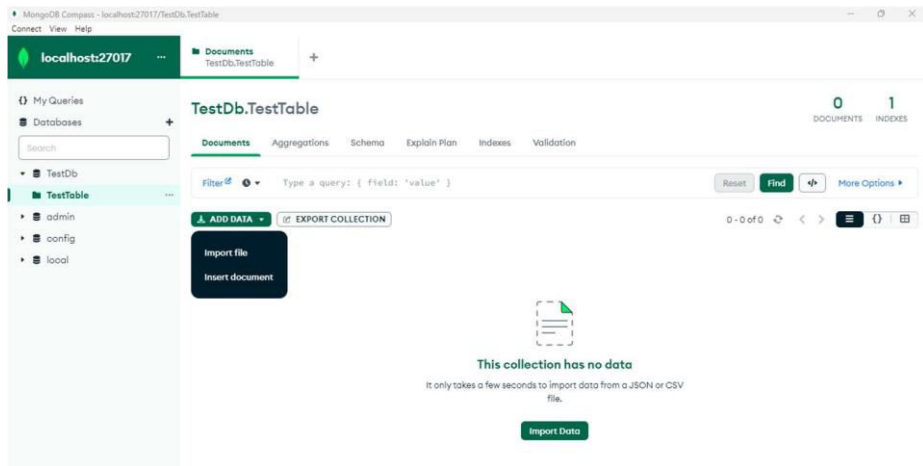
**Solution :**

**Step 1 :** Start → Open MongoDB.

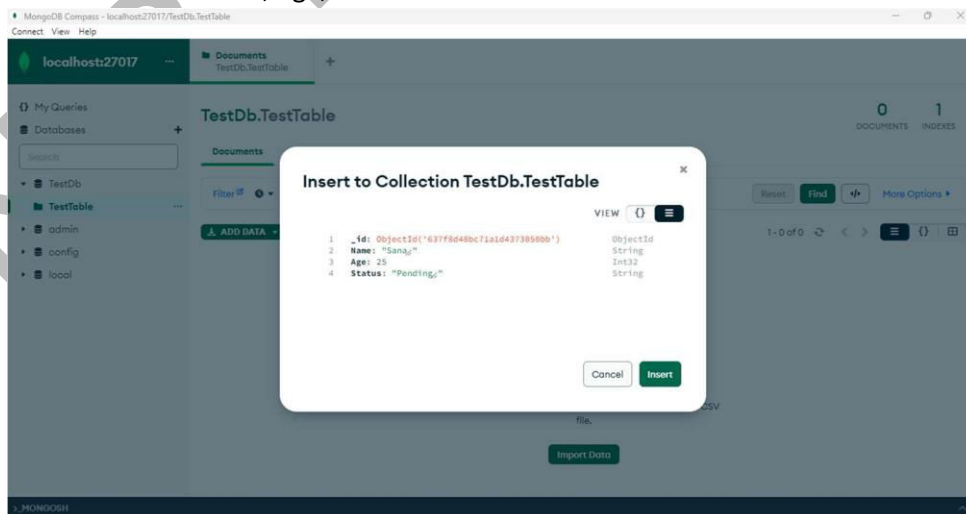


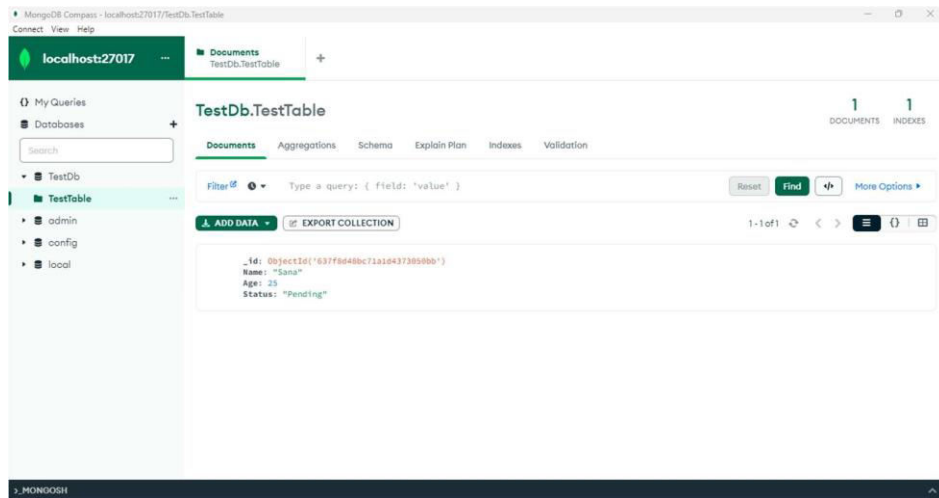
**Step 2 :** Select create database and then click on Add data and then choose Insert document.



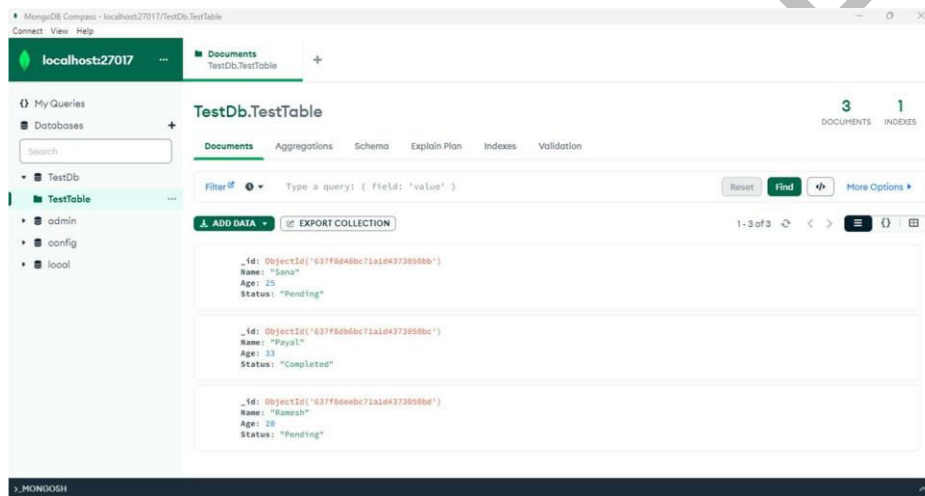


Insert data like name, age, status etc.

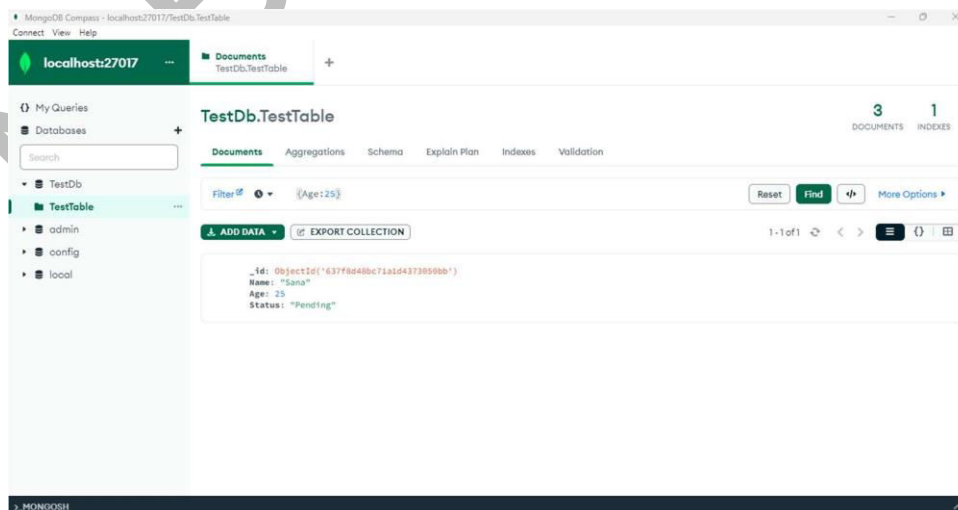




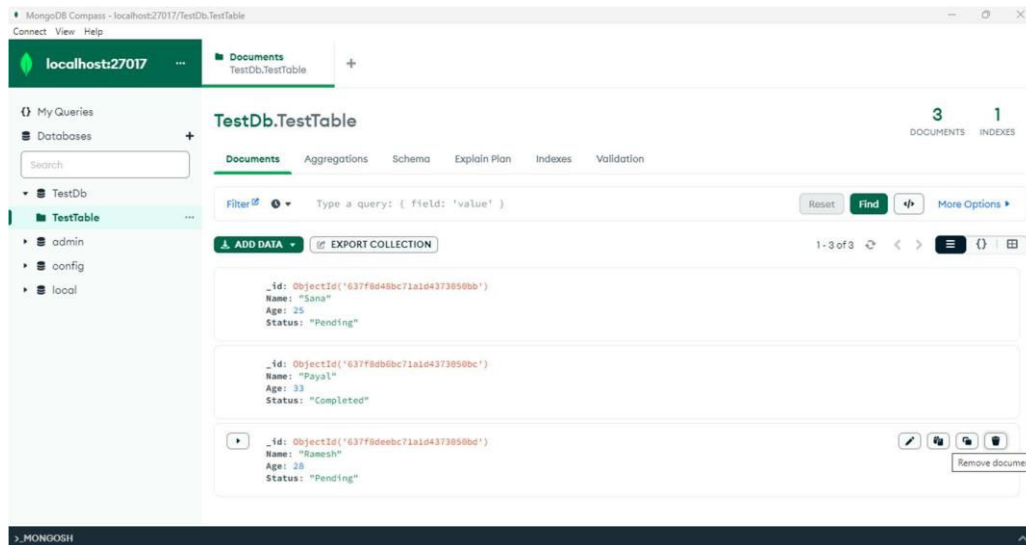
**Step 3 :** You can add new data and update it.



**Step 4 :** We can see access data by mentioning its values or names in Filter menu.



**Step 5 :** To delete data, click on remove document.



The updated database will look like :

