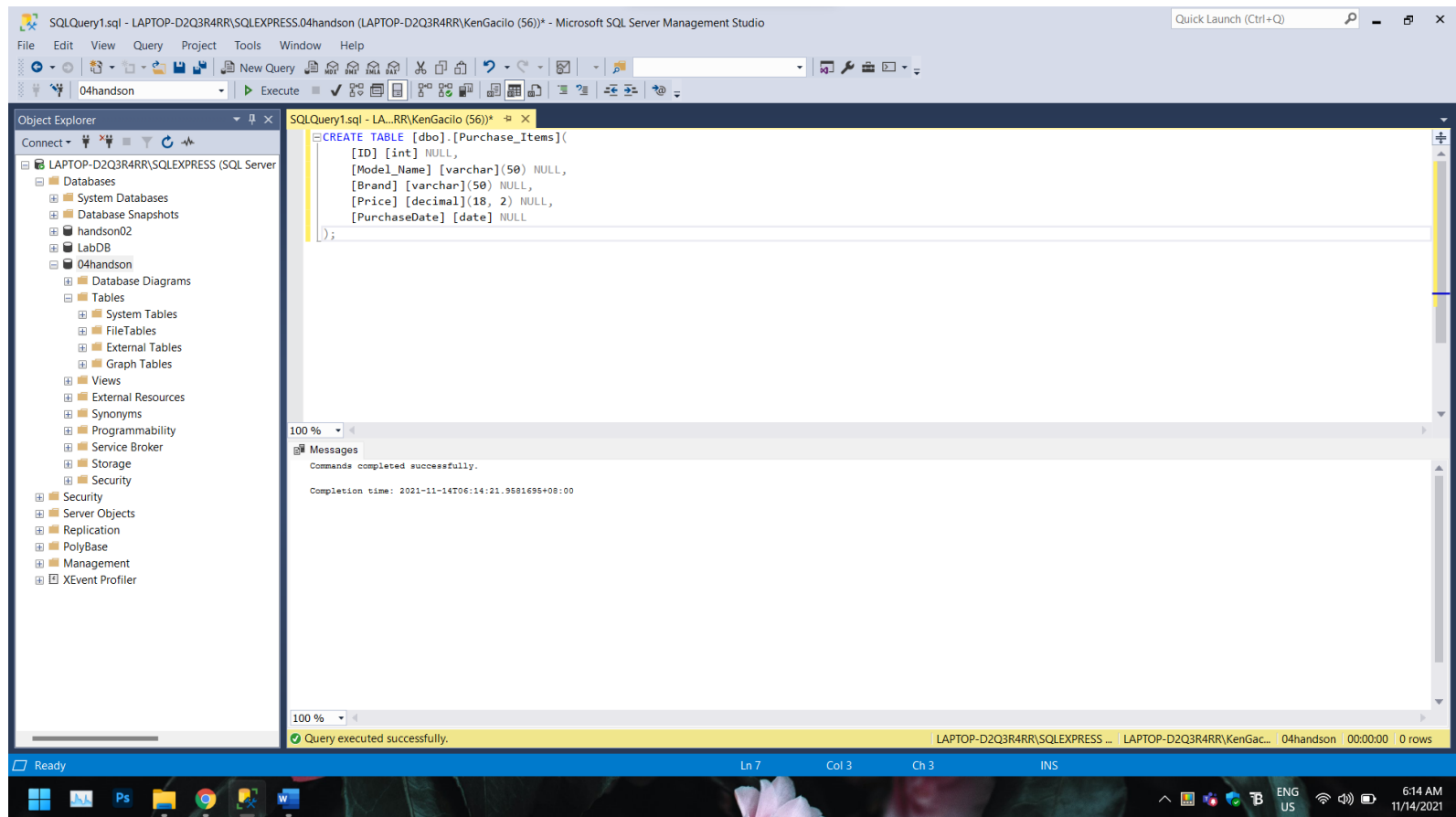


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ADVANCE DATABASE SYSTEMS
04 HANDS-ON ACTIVITY 1

CREATING TABLE



INSERTING DATA

SQL Query 1.sql - LAPTOP-D2Q3R4RR\SQLEXPRESS.04handson (LAPTOP-D2Q3R4RR\KenGacilo (56)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

04handson

Object Explorer

Connect LAPTOP-D2Q3R4RR\SQLEXPRESS (SQL Server)

Databases

System Databases

Database Snapshots

handson02

LabDB

04handson

Database Diagrams

Tables

System Tables

FileTables

External Tables

Graph Tables

Views

External Resources

Synonyms

Programmability

Service Broker

Storage

Security

Security

Server Objects

Replication

PolyBase

Management

XEvent Profiler

SQLQuery1.sql - LA...RR\KenGacilo (56)*

```
INSERT [dbo].[Purchase_Items] ([ID], [Model_Name], [Brand], [Price], [PurchaseDate]) VALUES (1, N'Galaxy S10', N'Samsung', CAST(25000.00 AS Decimal(18, 2)), CAST(N'2020-03-10' AS DateTime2(7)))
INSERT [dbo].[Purchase_Items] ([ID], [Model_Name], [Brand], [Price], [PurchaseDate]) VALUES (2, N'Galaxy S20', N'Samsung', CAST(55000.00 AS Decimal(18, 2)), CAST(N'2020-03-10' AS DateTime2(7)))
INSERT [dbo].[Purchase_Items] ([ID], [Model_Name], [Brand], [Price], [PurchaseDate]) VALUES (3, N'Galaxy Note10', N'Samsung', CAST(40000.00 AS Decimal(18, 2)), CAST(N'2020-03-10' AS DateTime2(7)))
INSERT [dbo].[Purchase_Items] ([ID], [Model_Name], [Brand], [Price], [PurchaseDate]) VALUES (4, N'Galaxy A51', N'Samsung', CAST(21000.00 AS Decimal(18, 2)), CAST(N'2020-03-10' AS DateTime2(7)))
INSERT [dbo].[Purchase_Items] ([ID], [Model_Name], [Brand], [Price], [PurchaseDate]) VALUES (5, N'iPhone X', N'Apple', CAST(50000.00 AS Decimal(18, 2)), CAST(N'2020-03-10' AS DateTime2(7)))
INSERT [dbo].[Purchase_Items] ([ID], [Model_Name], [Brand], [Price], [PurchaseDate]) VALUES (6, N'iPhone 11', N'Apple', CAST(70000.00 AS Decimal(18, 2)), CAST(N'2020-03-10' AS DateTime2(7)))
INSERT [dbo].[Purchase_Items] ([ID], [Model_Name], [Brand], [Price], [PurchaseDate]) VALUES (7, N'iPhone 6s', N'Apple', CAST(20000.00 AS Decimal(18, 2)), CAST(N'2020-03-10' AS DateTime2(7)))
INSERT [dbo].[Purchase_Items] ([ID], [Model_Name], [Brand], [Price], [PurchaseDate]) VALUES (8, N'iPhone 8', N'Apple', CAST(30000.00 AS Decimal(18, 2)), CAST(N'2020-03-10' AS DateTime2(7)))
INSERT [dbo].[Purchase_Items] ([ID], [Model_Name], [Brand], [Price], [PurchaseDate]) VALUES (9, N'Y8', N'Huawei', CAST(16000.00 AS Decimal(18, 2)), CAST(N'2020-03-10' AS DateTime2(7)))
INSERT [dbo].[Purchase_Items] ([ID], [Model_Name], [Brand], [Price], [PurchaseDate]) VALUES (10, N'P30', N'Huawei', CAST(45000.00 AS Decimal(18, 2)), CAST(N'2020-03-10' AS DateTime2(7)))
INSERT [dbo].[Purchase_Items] ([ID], [Model_Name], [Brand], [Price], [PurchaseDate]) VALUES (11, N'Y9', N'Huawei', CAST(24000.00 AS Decimal(18, 2)), CAST(N'2020-03-10' AS DateTime2(7)))
INSERT [dbo].[Purchase_Items] ([ID], [Model_Name], [Brand], [Price], [PurchaseDate]) VALUES (12, N'P40', N'Huawei', CAST(50000.00 AS Decimal(18, 2)), CAST(N'2020-03-10' AS DateTime2(7)))
INSERT [dbo].[Purchase_Items] ([ID], [Model_Name], [Brand], [Price], [PurchaseDate]) VALUES (13, N'Redmi 9', N'Xiaomi', CAST(10000.00 AS Decimal(18, 2)), CAST(N'2020-03-10' AS DateTime2(7)))
INSERT [dbo].[Purchase_Items] ([ID], [Model_Name], [Brand], [Price], [PurchaseDate]) VALUES (14, N'Redmi K30', N'Xiaomi', CAST(25000.00 AS Decimal(18, 2)), CAST(N'2020-03-10' AS DateTime2(7)))
INSERT [dbo].[Purchase_Items] ([ID], [Model_Name], [Brand], [Price], [PurchaseDate]) VALUES (15, N'Mi Note 10', N'Xiaomi', CAST(15000.00 AS Decimal(18, 2)), CAST(N'2020-03-10' AS DateTime2(7)))
INSERT [dbo].[Purchase_Items] ([ID], [Model_Name], [Brand], [Price], [PurchaseDate]) VALUES (16, N'BlackShark', N'Xiaomi', CAST(30000.00 AS Decimal(18, 2)), CAST(N'2020-03-10' AS DateTime2(7)))
INSERT [dbo].[Purchase_Items] ([ID], [Model_Name], [Brand], [Price], [PurchaseDate]) VALUES (17, N'iPhone 11', N'Apple', CAST(70000.00 AS Decimal(18, 2)), CAST(N'2020-03-10' AS DateTime2(7)))
INSERT [dbo].[Purchase_Items] ([ID], [Model_Name], [Brand], [Price], [PurchaseDate]) VALUES (18, N'iPhone 11', N'Apple', CAST(70000.00 AS Decimal(18, 2)), CAST(N'2020-03-10' AS DateTime2(7)))
INSERT [dbo].[Purchase_Items] ([ID], [Model_Name], [Brand], [Price], [PurchaseDate]) VALUES (19, N'Galaxy S20', N'Samsung', CAST(55000.00 AS Decimal(18, 2)), CAST(N'2020-03-10' AS DateTime2(7)))
INSERT [dbo].[Purchase_Items] ([ID], [Model_Name], [Brand], [Price], [PurchaseDate]) VALUES (20, N'Galaxy S10', N'Samsung', CAST(25000.00 AS Decimal(18, 2)), CAST(N'2020-03-10' AS DateTime2(7)))
INSERT [dbo].[Purchase_Items] ([ID], [Model_Name], [Brand], [Price], [PurchaseDate]) VALUES (21, N'Galaxy Note10', N'Samsung', CAST(40000.00 AS Decimal(18, 2)), CAST(N'2020-03-10' AS DateTime2(7)))
INSERT [dbo].[Purchase_Items] ([ID], [Model_Name], [Brand], [Price], [PurchaseDate]) VALUES (22, N'iPhone 8', N'Apple', CAST(30000.00 AS Decimal(18, 2)), CAST(N'2020-03-10' AS DateTime2(7)))
INSERT [dbo].[Purchase_Items] ([ID], [Model_Name], [Brand], [Price], [PurchaseDate]) VALUES (23, N'BlackShark 3', N'Xiaomi', CAST(30000.00 AS Decimal(18, 2)), CAST(N'2020-03-10' AS DateTime2(7)))
INSERT [dbo].[Purchase_Items] ([ID], [Model_Name], [Brand], [Price], [PurchaseDate]) VALUES (24, N'P40', N'Huawei', CAST(45000.00 AS Decimal(18, 2)), CAST(N'2020-03-10' AS DateTime2(7)))
INSERT [dbo].[Purchase_Items] ([ID], [Model_Name], [Brand], [Price], [PurchaseDate]) VALUES (25, N'iPhone X', N'Apple', CAST(70000.00 AS Decimal(18, 2)), CAST(N'2020-03-10' AS DateTime2(7)))
```

100 %

Messages

(1 row affected)

(1 row affected)

(1 row affected)

(1 row affected)

(1 row affected)

(1 row affected)

100 %

Query executed successfully.

LAPTOP-D2Q3R4RR\SQLEXPRESS ... LAPTOP-D2Q3R4RR\KenGacilo (56) 04handson 00:00:00 0 rows

Ready Ln 25 Col 184 Ch 184 INS

6:15 AM 11/14/2021

03 FOLLOWING

The screenshot displays the Microsoft SQL Server Management Studio (SSMS) interface. The title bar indicates the file is 'SQLQuery1.sql' located on 'LAPTOP-D2Q3R4RR\SQLSERVERPRESS\04handson (LAPTOP-D2Q3R4RR\KenGacilo (56))' in Microsoft SQL Server Management Studio. The menu bar includes File, Edit, View, Query, Project, Tools, Window, and Help. The toolbar shows various icons for file operations and query execution. The Object Explorer on the left shows the server structure for 'LAPTOP-D2Q3R4RR\SQLSERVERPRESS (SQL Server)', including Databases, System Databases, Database Snapshots, handson02, LabDB, 04handson, Database Diagrams, Tables, Views, External Resources, Synonyms, Programmability, Service Broker, Storage, Security, Server Objects, Replication, PolyBase, Management, and XEvent Profiler. The central query editor shows the following SQL query:

```
SELECT COALESCE(Brand, 'All Brand') AS Brand,  
SUM(Price) AS 'Total Amount' FROM Purchase Items  
GROUP BY ROLLUP (Brand);
```

The Results pane at the bottom shows the output of the query:

Brand	Total Amount
Apple	410000.00
Huawei	180000.00
Samsung	261000.00
Xiaomi	110000.00
All Brand	961000.00

A status bar at the bottom indicates 'Query executed successfully.' and '5 rows'. A Notepad window titled 'Untitled - Notepad' is overlaid on the SSMS window, displaying the text:

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The Windows taskbar at the bottom shows the system clock as 6:17 AM on 11/14/2021, with the language set to ENG US.

04 FOLLOWING

The screenshot displays the Microsoft SQL Server Management Studio interface. The 'Object Explorer' on the left shows the database structure for 'LAPTOP-D2Q3R4RR\SQLEXPRESS (SQL Server)'. The 'Query Editor' in the center shows a SQL query that has been executed successfully. The 'Results' pane at the bottom displays a table with 16 rows and 3 columns: MONTH, Brand, and Total Amount. A Notepad window is overlaid on the right side of the screen, containing the text 'GACILO, Ariel Jericko' and 'BSIT A501'.

```
SELECT Month (PurchaseDate) AS 'MONTH',  
CASE WHEN MONTH (PurchaseDate) is null THEN 'GRAND TOTAL'  
ELSE COALESCE (Brand, 'Monthly Total') END AS Brand,  
SUM (Price) AS 'Total Amount' FROM Purchase_Items  
GROUP BY ROLLUP (Month(PurchaseDate), Brand)
```

MONTH	Brand	Total Amount
1	Samsung	141000.00
1	Monthly Total	141000.00
2	Apple	170000.00
2	Monthly Total	170000.00
3	Huawei	135000.00
3	Xiaomi	10000.00
3	Monthly Total	145000.00
4	Apple	70000.00
4	Xiaomi	70000.00
4	Monthly Total	140000.00
5	Apple	170000.00
5	Huawei	45000.00
5	Samsung	120000.00
5	Xiaomi	30000.00
5	Monthly Total	365000.00
NULL	GRAND TOTAL	961000.00

Query executed successfully.

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05 FOLLOWING

The screenshot displays the Microsoft SQL Server Management Studio interface. The 'Object Explorer' on the left shows the database structure for 'LAPTOP-D2Q3R4RR\SQLEXPRESS (SQL Server)'. The 'Query Editor' in the center contains a T-SQL query that uses a CUBE operator to calculate monthly subtotals and grand totals for different brands. The 'Results' pane at the bottom shows the output of the query, which includes columns for 'PurchaseMonth', 'Brand', and 'Total Amount'. The results are grouped by brand and then by month. A Notepad window titled 'Untitled - Notepad' is overlaid on the results, containing the text 'GACILO, Ariel Jericko' and 'BSIT A501'.

```
SELECT Month (PurchaseDate) PurchaseMonth,
CASE WHEN MONTH (PurchaseDate) is null
THEN COALESCE ('Grand Total for ' + Brand, 'Grand Total')
ELSE COALESCE (Brand, 'Monthly Subtotal') END AS Brand,
SUM (Price) AS 'Total Amount' FROM Purchase Items
GROUP BY CUBE (Month(PurchaseDate), Brand)
```

PurchaseMonth	Brand	Total Amount
2	Apple	170000.00
4	Apple	70000.00
5	Apple	170000.00
NULL	Grand Total for Apple	410000.00
3	Huawei	135000.00
5	Huawei	45000.00
NULL	Grand Total for Huawei	180000.00
1	Samsung	141000.00
5	Samsung	120000.00
NULL	Grand Total for Samsung	261000.00
3	Xiaomi	10000.00
4	Xiaomi	70000.00
5	Xiaomi	30000.00
NULL	Grand Total for Xiaomi	110000.00
NULL	Grand Total	961000.00
1	Monthly Subtotal	141000.00
2	Monthly Subtotal	170000.00
3	Monthly Subtotal	145000.00
4	Monthly Subtotal	140000.00
5	Monthly Subtotal	365000.00

Query executed successfully. LAPTOP-D2Q3R4RR\SQLEXPRESS ... LAPTOP-D2Q3R4RR\KenGac... 04handson 00:00:00 20 rows

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