

Lab6

1.Understanding Distinct

2.Understanding Aliases

The screenshot shows a SQL query window in SQL Server Enterprise Manager. The query is as follows:

```

INSERT into Branch (branchNo, street, city, postcode) VALUES (N'B003', 'NH#79 I-10/2', 'NISB', 'N52000')
INSERT into Branch (branchNo, street, city, postcode) VALUES (N'B004', 'NH#78 MANDIAN', 'NABT', 'N53000')
INSERT into Branch (branchNo, street, city, postcode) VALUES (N'B005', 'NH#59 MANDIAN', 'NABT', 'N55000')

INSERT into Branch (branchNo, street, city, postcode) VALUES (N'B006', 'NH#98 MAKKAK', 'NABT', 'N58000')
Select distinct(city) from Branch
Select city As MyCity from Branch

INSERT into Staff (staffNo, fName, lName, position, sex, DOB, salary, branchNo) VALUES ('NSA85', N'Mary', N'Howe', N'Assistant', N'F', '1970-01-01 00:00:00', '9000', '10')
INSERT into Staff (staffNo, fName, lName, position, sex, DOB, salary, branchNo) VALUES ('NSA86', N'William', N'Ford', N'Supervisor', N'M', '1980-01-01 00:00:00', '10000', '10')
INSERT into Staff (staffNo, fName, lName, position, sex, DOB, salary, branchNo) VALUES ('NSA87', N'David', N'Beech', N'Admin', N'M', '1990-01-01 00:00:00', '11000', '10')
INSERT into Staff (staffNo, fName, lName, position, sex, DOB, salary, branchNo) VALUES ('NSA88', N'Ann', N'Brand', N'HR', N'F', '2000-01-01 00:00:00', '12000', '10')

```

The results window shows the output of the query:

MyCity
NISB
NABT
NISB
NABT
NABT
NABT

The screenshot shows a SQL query window in SQL Server Enterprise Manager. The query is as follows:

```

INSERT into Staff (staffNo, fName, lName, position, sex, DOB, salary, branchNo) VALUES ('NSA85', N'Mary', N'Howe', N'Assistant', N'F', '1970-01-01 00:00:00', '9000', '10')
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INSERT into Staff (staffNo, fName, lName, position, sex, DOB, salary, branchNo) VALUES ('NSA87', N'David', N'Beech', N'Admin', N'M', '1990-01-01 00:00:00', '11000', '10')
INSERT into Staff (staffNo, fName, lName, position, sex, DOB, salary, branchNo) VALUES ('NSA88', N'Ann', N'Brand', N'HR', N'F', '2000-01-01 00:00:00', '12000', '10')

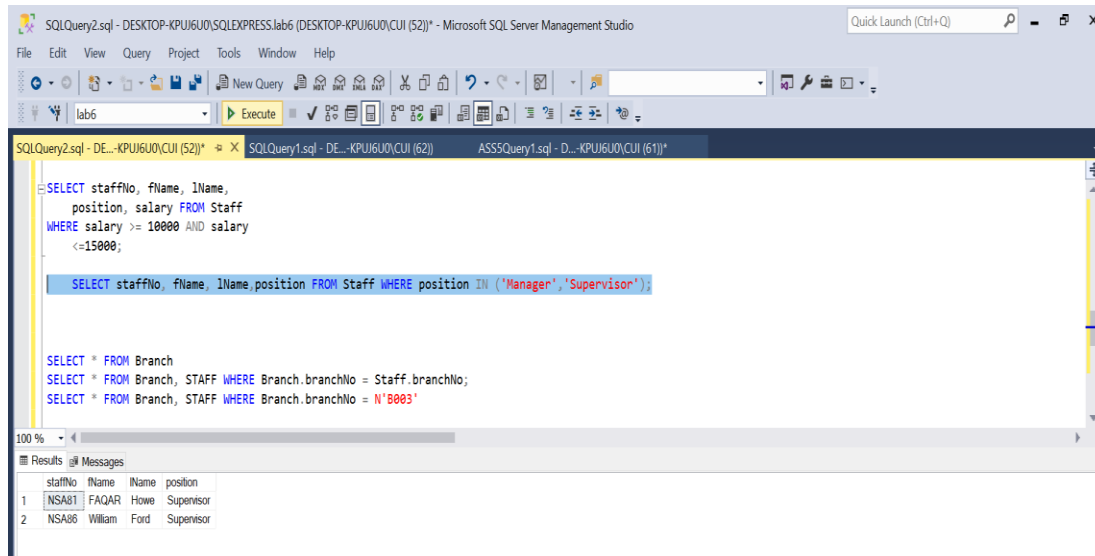
SELECT staffNo, fName, lName, position, salary FROM Staff
WHERE salary BETWEEN 10000 AND 15000;

SELECT staffNo, fName, lName, position, salary FROM Staff
WHERE salary >= 10000 AND salary <= 15000;

```

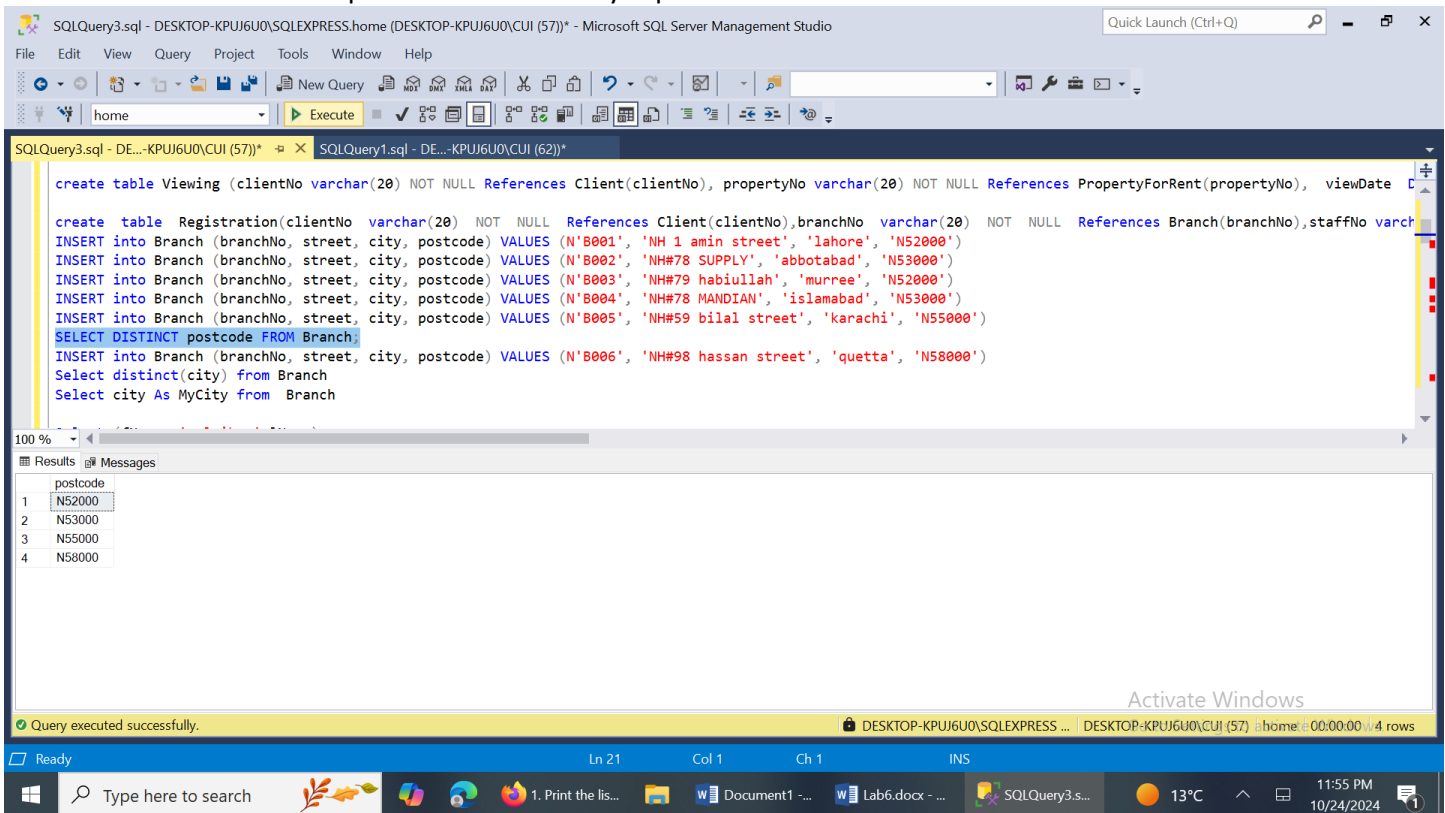
The results window shows the output of the query:

staffNo	fName	lName	position	salary
NSA86	William	Ford	Supervisor	10000
NSA87	David	Beech	Admin	11000
NSA88	Ann	Brand	HR	12000



6.1 Exercises

1. Print the list of postcode without any repetition



2. Print all fName from Staff without repetition

SQLQuery3.sql - DESKTOP-KPUJ6U0\SQLEXPRESS.home (DESKTOP-KPUJ6U0\CUI (57)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

home Execute

```

SQLQuery3.sql - DE...KPUJ6U0\CUI (57))*
SQLQuery1.sql - DE...KPUJ6U0\CUI (62))*
INSERT into Staff (staffNo, fName, lName, position, sex, DOB, salary, branchNo) VALUES (NSA88, N'Afaq', N'yaqoob', N'HR', N'F', '2000-01-01', '436000', N'B004');
INSERT into Staff (staffNo, fName, lName, position, sex, DOB, salary, branchNo) VALUES ('NSA81', N'wAQAR', N'Hamid', N'remote', N'M', '2003-012-01', '7840000', N'B006');
SELECT DISTINCT fName FROM Staff;
SELECT * FROM Staff WHERE salary > 10000;
SELECT
    staffNo AS Staff_Number,
    fName AS First_Name,
    lName AS Last_Name,
    DOB As DATEE_BIRTH,
    position AS Job_Title,
    salary AS Salary_Amount
FROM Staff;

create table Client (clientNo varchar(20) NOT NULL PRIMARY KEY, fName varchar(50) NOT NULL, lName varchar(50) NOT NULL, tel varchar(20) NOT NULL, prefType varchar(50) NOT NULL);

```

100 %

Results Messages

	Staff_Number	First_Name	Last_Name	DATEE_BIRTH	Job_Title	Salary_Amount
1	NSA81	wAQAR	Hamid	2003-12-01 00:00:00.000	remote	7840000
2	NSA86	ali	amir	1980-01-01 00:00:00.000	Supervisor	980000
3	NSA87	bilal	riaz	1990-01-01 00:00:00.000	Manager	78000
4	NSA88	Afaq	yaqoob	2000-01-01 00:00:00.000	HR	436000

Query executed successfully.

DESKTOP-KPUJ6U0\SQLEXPRESS ... DESKTOP-KPUJ6U0\CUI (57) home 00:00:00 4 rows

Ready Ln 39 Col 1 Ch 1 INS

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3. List all staff with renaming all its columns in results

SQLQuery3.sql - DESKTOP-KPUJ6U0\SQLEXPRESS.home (DESKTOP-KPUJ6U0\CUI (57)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

home Execute

```

SQLQuery3.sql - DE...KPUJ6U0\CUI (57))*
SQLQuery1.sql - DE...KPUJ6U0\CUI (62))*
INSERT into Staff (staffNo, fName, lName, position, sex, DOB, salary, branchNo) VALUES (NSA88, N'Afaq', N'yaqoob', N'HR', N'F', '2000-01-01', '436000', N'B004');
INSERT into Staff (staffNo, fName, lName, position, sex, DOB, salary, branchNo) VALUES ('NSA81', N'wAQAR', N'Hamid', N'remote', N'M', '2003-012-01', '7840000', N'B006');
SELECT DISTINCT fName FROM Staff;
SELECT * FROM Staff WHERE salary > 10000;
SELECT
    staffNo AS Staff_Number,
    fName AS First_Name,
    lName AS Last_Name,
    DOB As DATEE_BIRTH,
    position AS Job_Title,
    salary AS Salary_Amount
FROM Staff;

create table Client (clientNo varchar(20) NOT NULL PRIMARY KEY, fName varchar(50) NOT NULL, lName varchar(50) NOT NULL, tel varchar(20) NOT NULL, prefType varchar(50) NOT NULL);

```

100 %

Results Messages

	staffNo	fName	lName	position	sex	DOB	salary	branchNo
1	NSA81	wAQAR	Hamid	remote	M	2003-12-01 00:00:00.000	7840000	B006
2	NSA86	ali	amir	Supervisor	F	1980-01-01 00:00:00.000	980000	B002
3	NSA87	bilal	riaz	Manager	M	1990-01-01 00:00:00.000	78000	B003
4	NSA88	Afaq	yaqoob	HR	F	2000-01-01 00:00:00.000	436000	B004

Query executed successfully.

DESKTOP-KPUJ6U0\SQLEXPRESS ... DESKTOP-KPUJ6U0\CUI (57) home 00:00:00 4 rows

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4. List all clients with re-naming all its columns to synonyms.

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

```

INSERT into Staff (staffNo, fName, lName, position, sex, DOB, salary, branchNo) VALUES (NSA88, N'Ataq', N'yaqoob', N'HR', N'F', '2000-01-01', '436000', N'B004');
INSERT into Staff (staffNo, fName, lName, position, sex, DOB, salary, branchNo) VALUES ('NSA81', N'WAQAR', N'Hamid', N'remote', N'M', '2003-01-01', '784000', N'B006');
SELECT DISTINCT fName FROM Staff;
SELECT * FROM Staff WHERE salary > 10000;
SELECT
    staffNo AS Staff_Number,
    fName AS First_Name,
    lName AS Last_Name,
    DOB AS DATEE_BIRTH,
    position AS Job_Title,
    salary AS Salary_Amount
FROM Staff;
create table Client (clientNo varchar(20) NOT NULL PRIMARY KEY, fName varchar(50) NOT NULL, lName varchar(50) NOT NULL, tel varchar(20) NOT NULL, prefType varchar(50) NOT NULL);
  
```

The Results pane shows the output of the query, displaying a table with 8 columns: staffNo, fName, lName, position, sex, DOB, salary, and branchNo. The data is as follows:

staffNo	fName	lName	position	sex	DOB	salary	branchNo
NSA81	WAQAR	Hamid	remote	M	2003-12-01 00:00:00.000	7840000	B006
NSA86	ali	amir	Supervisor	F	1980-01-01 00:00:00.000	980000	B002
NSA87	bilal	riaz	Manager	M	1990-01-01 00:00:00.000	78000	B003
NSA88	Afaq	yaqoob	HR	F	2000-01-01 00:00:00.000	436000	B004

The status bar at the bottom indicates "Query executed successfully." and "DESKTOP-KPUJ6U0\SQLEXPRESS ... | DESKTOP-KPUJ6U0\CUI (57) | home | 00:00:00 | 4 rows".

5. List all staff with a salary greater than 10,000.

SQLQuery1.sql - DESKTOP-KPUJ6U0\SQLEXPRESS.Lab11 (DESKTOP-KPUJ6U0\CUI (62))* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Lab11 Execute

```
SQLQuery3.sql - DE...KPUJ6U0\CUI (57))* SQLQuery1.sql - DE...KPUJ6U0\CUI (62))* X
    lName AS Last_Name,
    DOB AS DATEE_BIRTH,
    position AS Job_Title,
    salary AS Salary_Amount
FROM Staff;
SELECT *
FROM staff
WHERE position IN ('Manager', 'Supervisor');

create table Client (clientNo varchar(20) NOT NULL PRIMARY KEY, fName varchar(50) NOT NULL, lName varchar(50) NOT NULL, tel varchar(20) NOT NULL, prefType varchar(50) NOT NULL, maxRent decimal(10,2))

INSERT INTO Client (clientNo, fName, lName, tel, prefType, maxRent) VALUES
('1', 'mehmood', 'hussain', '543567588', 'flat', 2300.00),
('2', 'mahin', 'Salman', '6558587', 'apartment', 1300.00);
```

100 %

Results Messages

staffNo	fName	lName	position	sex	DOB	salary	branchNo
---------	-------	-------	----------	-----	-----	--------	----------

Query executed successfully. DESKTOP-KPUJ6U0\SQLEXPRESS ... DESKTOP-KPUJ6U0\CUI (62) Lab11 00:00:00 0 rows

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SQLQuery2.sql - DESKTOP-KPUJ6U0\SQLEXPRESS.lab6 (DESKTOP-KPUJ6U0\CUI (52))* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

lab6 Execute

```
INSERT INTO PrivateOwner (ownerNo, fName, lName, address, telNo) VALUES
('P0001', 'John', 'Doe', '123 Elm St', '555-1234'),
('P0002', 'Jane', 'Smith', '456 Oak St', '555-5678'),
('P0003', 'Alice', 'Johnson', '789 Pine St', '555-8765'),
('P0004', 'Bob', 'Brown', '135 Maple St', '555-4321'),
('P0005', 'Charlie', 'Davis', '246 Birch St', '555-6789'),
('P0006', 'Eve', 'Wilson', '357 Cedar St', '555-3456'),
('P0007', 'Frank', 'Moore', '468 Walnut St', '555-9876');
SELECT ownerNo, fName, lName, address, telNo FROM PrivateOwner WHERE address LIKE '%st%';
```

100 %

Results Messages

	ownerNo	fName	lName	address	telNo
1	P0001	John	Doe	123 Elm St	555-1234
2	P0002	Jane	Smith	456 Oak St	555-5678
3	P0003	Alice	Johnson	789 Pine St	555-8765
4	P0004	Bob	Brown	135 Maple St	555-4321
5	P0005	Charlie	Davis	246 Birch St	555-6789
6	P0006	Eve	Wilson	357 Cedar St	555-3456
7	P0007	Frank	Moore	468 Walnut St	555-9876

Query executed successfully.

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Ready Ln 59 Col 5 Ch 2 INS

Type here to search create table P... Document1 ... SQLQuery2.s... Microsoft SQ... 13°C 10:05 PM 10/24/2024