ITDIB2-B44 Assignment:

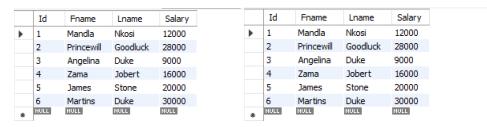
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Question 1:

```
1.1
Create Table Salary_List
Id INT NOT NULL Primary Key,
Fname VARCHAR(30) NOT NULL,
Lname VARCHAR(30) NOT NULL,
Salary INT NULL
);
1.2
INSERT into Salary_List(Id, Fname, Lname, Salary)
VALUES
(0001, 'Mandla', 'Nkosi', 12000),
(0002, 'Princewill', 'Goodluck', 28000),
(0003,'Angelina','Duke',9000),
(0004, 'Zama', 'Jobert', 16000),
(0005, 'James', 'Stone', 20000),
(0006, 'Martins', 'Duke', 30000);
1.3
Input:
Select * from Salary_List;
Select Id, Fname, Lname, Salary from Salary_List;
Select * From Salary_List;
Select Id,Fname,Lname,Salary from Salary_List;
```

Output:



Salary_List 1 × Salary_List 2 Salary_List 3 Salary_List 1 Salary_List 2 × Salary_List 3

1.4

Input:

Select * from Salary_List

Where Lname LIKE '%Jobert';

```
Select * from Salary_List
Where Lname LIKE '%Jobert';
```

Output:



Question 2:

Creation of Staff_List Table:

```
Create Table Staff_List
Id INT NOT NULL Primary Key,
Fname VARCHAR(30) NOT NULL,
Lname VARCHAR(30) NOT NULL,
Salary INT NULL
);
INSERT into Staff_List(Id, Fname, Lname, Salary)
VALUES
(0001, 'Mandla', 'Nkosi', 12000),
(0002, 'Princewill', 'Goodluck', 28000),
(0003,'Angelina','Duke',9000),
(0004, 'Zama', 'Jobert', 16000),
(0005, 'James', 'Stone', 20000),
(0006, 'Blessing', 'Seli_mont', null),
(0007, 'Brenda', 'Ti_tus', null),
(0008, 'Martins', 'Duke', 30000);
```

Input:

Select * from Staff_List

Where Lname LIKE '%_%';

```
Select * from Staff_List
Where Lname LIKE '%\_%';
```

Output:



2.2

Input:

UPDATE Staff_List

Set Lname = 'Selimont'

Where Id = 0006;

UPDATE Staff_List

Set Lname = 'Titus'

Where Id = 0007;

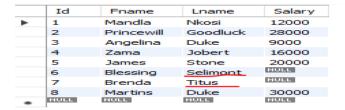
Select * from Staff_List

```
UPDATE Staff_List
SET Lname = 'Selimont'
Where Id = 0006;

UPDATE Staff_List
SET Lname = 'Titus'
Where Id = 0007;

Select * from Staff_List
```

Output:



Staff_List 17 ×

Input:

Delete from Staff_List

Where Id = 0006;

Delete from Staff_List

Where Id = 0007;

Delete from Staff_List
Where Id = 0006;

Delete from Staff_List Where Id = 0007;

Select * from Staff_List;

Output:

	Id	Fname	Lname	Salary
•	1	Mandla	Nkosi	12000
	2	Princewill	Goodluck	28000
	3	Angelina	Duke	9000
	4	Zama	Jobert	16000
	5	James	Stone	20000
	8	Martins	Duke	30000
	NULL	NULL	NULL	NULL

2.4

Input:

Select * from Staff_List

Where Lname LIKE 'D%'

Select * from Staff_List Where Lname LIKE 'D%'

Output:

	Id	Fname	Lname	Salary
•	3	Angelina	Duke	9000
	8	Martins	Duke	30000
	NULL	NULL	NULL	NULL

Input:

Select * from Staff_List

Where Lname LIKE '%K%'

And Salary > 20000;

```
Select * from Staff_List
Where Lname LIKE '%K%'
And Salary > 20000;
```

Output:

	Id	Fname	Lname	Salary
•	2	Princewill	Goodluck	28000
	8	Martins	Duke	30000
	NULL	NULL	NULL	NULL

2.6

Input:

Select * from Staff_List

Where Lname LIKE '%G%'

And Salary > 20000

And Salary < 40000;

```
Select * from Staff_List
Where Lname LIKE '%G%'
And Salary > 20000
AND Salary < 40000;
```

Output:

	Id	Fname	Lname	Salary
•	2	Princewill	Goodluck	28000
	NULL	NULL	NULL	NULL

Question 3:

```
3.1
```

Input:

Select Id, Fname, Salary from Staff List

Where Salary IN(10000, 20000, 30000, 40000, 50000, 60000, 70000, 80000, 90000, 100000);

```
Select Id, Fname, salary from Staff_List
Where salary IN(10000,20000,30000,40000,50000,60000,70000,80000,90000,100000);
```

Output:

	Id	Fname	salary
•	5	James	20000
	8	Martins	30000

Creation of Staff Info Table:

```
Create Table Staff_Info
(
Id INT NOT NULL Primary Key,
Fname VARCHAR(30) NOT NULL,
Lname VARCHAR(30) NOT NULL,
Salary INT NULL,
Location VARCHAR(30) NOT NULL
);

INSERT into Staff_Info(Id, Fname, Lname, Salary, Location)
VALUES
(0001,'Mandla','Nkosi',12000,'Midrand'),
(0002,'Princewill','Goodluck',28000,'Johannesburg'),
(0003,'Angelina','Duke',9000,'Pretoria'),
(0004,'Zama','Jobert',16000,'Durban'),
(0005,'James','Stone',20000,'Cape Town'),
(0006,'Martins','Duke',30000,'Port Elizabeth');
```

Input:

Select * from Staff_Info

Where Salary >= 16000;

```
Select * from Staff_Info
Where Salary >= 16000;
```

Output:

Id	Fname	Lname	Salary	Location
2	Princewill	Goodluck	28000	Johannesburg
4	Zama	Jobert	16000	Durban
5	James	Stone	20000	Cape Town
6	Martins	Duke	30000	Port Elizabeth

3.3

Input:

Select * from Staff_Info

Where Salary IN(12000, 28000, 30000);

```
Select * from Staff_Info
Where Salary IN(12000, 28000, 30000);
```

Output:

Id	Fname	Lname	Salary	Location
1	Mandla	Nkosi	12000	Midrand
2	Princewill	Goodluck	28000	Johannesburg
6	Martins	Duke	30000	Port Elizabeth

3.4

Alter table Staff_Info Modify Column Fname VARCHAR(11);

The table Staff_Info is selected for altering, then the Fname column is selected to be modified into a VARCHAR datatype that may only contain 11 characters.

Input:

Select * from Staff_Info

Order By Lname;

```
Select * from Staff_Info
Order By Lname;
```

Output:

Id	Fname	Lname	Salary	Location
3	Angelina	Duke	9000	Pretoria
6	Martins	Duke	30000	Port Elizabeth
2	Princewill	Goodluck	28000	Johannesburg
4	Zama	Jobert	16000	Durban
1	Mandla	Nkosi	12000	Midrand
5	James	Stone	20000	Cape Town

3.6

AND: Is used to select records within a database, where two conditions must be met.

OR: Is used to select records within a database, where one or another condition is met.

%K: Is used to select records within a database, where a record starts with the letter 'K'.

%K%: Is used to select records within a database, where a record must contain the letter 'K' somewhere in it.