

LAPORAN TUGAS

MATA KULIAH ALGORITMA DAN STRUKTUR DATA

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PERTEMUAN - 8 Normalisasi



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JURUSAN TEKNOLOGI INFORMASI
POLITEKNIK NEGERI MALANG

2024

TUGAS 1

Location code	Location name	Plant code	Plant name	Soil category	Soil description
11	Kirstenbosch Gardens	431	Leucadendron	A	Sandstone
		446	Protea	B	Sandstone/limestone
		482	Erica	C	Limestone
12	Karbonkelberg Mountains	431	Leucadendron	A	Sandstone
		449	Restio	B	Sandstone/limestone

Tabel 1NF

<u>Location Code</u>	<u>Location Name</u>	<u>Plant Code</u>	<u>Plant Name</u>	<u>Soil Category</u>	<u>Soil Description</u>
11	Kirstenbosch Gardens	431	Leucadendron	A	Sandstone
11	Kirstenbosch Gardens	446	Protea	B	Sandstone / Limestone
11	Kirstenbosch Gardens	482	Erica	C	Limestone
12	Karbonkelberg Mountains	431	Leucadendron	A	Sandstone
12	Karbonkelberg Mountains	449	Restio	B	Sandstone / Limestone

Tabel Location

<u>Location Code</u>	<u>Location Name</u>
11	Kirstenbosch Gardens
12	Karbonkelberg Mountains

Tabel Plant

<u>Plant Code</u>	<u>Plant Name</u>
431	Leucadendron
446	Protea
449	Restio
482	Erica

Tabel Soil

<u>Soil Category</u>	<u>Soil Description</u>
A	Sandstone
B	Sandstone / Limestone
C	Limestone

Tabel DetailSoil

Location	Plant	Soil
11	431	A
11	446	B
11	482	C
12	431	A
12	449	B

TUGAS 2

NIP	Nama	Jabatan	Keahlian	Lama Kerja
156107	Rangga	Analisis Senior	Java	6
			Oracle	1
156109	Maura	Analisis Junior	Java	2
			C++	2
156120	Cinta	Programmer	Dbase	3
			Sybase	1
			Java	1

1 NF

NIP	Nama	Jabatan	Keahlian	Lama Kerja
156107	Rangga	Analisis Senior	Java	6
156107	Rangga	Analisis Senior	Oracle	1
156109	Maura	Analisis Senior	Java	2
156109	Maura	Analisis Senior	C++	2
156120	Cinta	Programmer	Dbase	3
156120	Cinta	Programmer	Skybase	1
156120	Cinta	Programmer	Java	1

2 NF

NIP	Nama	Jabatan
156107	Rangga	Analisis Senior
156109	Maura	Analisis Senior
156120	Cinta	Programmer

Keahlian	NamaKeahlian
1	Java
2	Oracle
3	C++
4	Dbase
5	Sybase

NIP	Keahlian	Lama Kerja
156107	1	6
156107	2	1
156109	1	2
156109	3	2
156120	4	3
156120	5	1
156120	1	1

TUGAS 3

FULL NAMES	PHYSICAL ADDRESS	MOVIES RENTED	SALUTATION
Janet Jones	First Street Plot No 4	Pirates of the Caribbean, Clash of the Titans	Ms.
Robert Phil	3 rd Street 34	Forgetting Sarah Marshal, Daddy's Little Girls	Mr.
Robert Phil	5 th Avenue	Clash of the Titans	Mr.

1 NF

Full Name	Physical Address	Movies Rented	Salutation
Janet Jones	First Street Plot No 4	Pirates of Caribbean	Ms
Janet Jones	First Street Plot No 4	Clash of The Titans	Ms
Robert Phil	3 rd Street 34	Forgetting Sarah Marshal	Mr
Robert Phil	3 rd Street 34	Daddy's Little Girl	Mr
Robert Phil	5 th Avenue	Clash of The Titans	Mr

2 NF

Full Names	Physical Address	Salutation
Janet Jones	First Street Plot No 4	Ms
Janet Jones	First Street Plot No 4	Ms
Robert Phil	3 rd Street 34	Mr
Robert Phil	3 rd Street 34	Mr
Robert Phil	5 th Avenue	Mr

Full Names	Movies Oriented
Janet Jones	Pirates of Caribbean
Janet Jones	Clash of The Titans
Robert Phil	Forgetting Sarah Marshal
Robert Phil	Daddy's Little Girl
Robert Phil	Clash of The Titans

3 NF

Full Names	Physical Address
Janet Jones	First Street Plot No 4
Janet Jones	First Street Plot No 4
Robert Phil	3 rd Street 34
Robert Phil	3 rd Street 34
Robert Phil	5 th Avenue

<u>Full Names</u>	<u>Movies Oriented</u>
Janet Jones	Pirates of Caribbean
Janet Jones	Clash of The Titans
Robert Phil	Forgetting Sarah Marshal
Robert Phil	Daddy's Little Girl
Robert Phil	Clash of The Titans

<u>Full Names</u>	<u>Salutation</u>
Janet Jones	Ms
Janet Jones	Ms
Robert Phil	Mr
Robert Phil	Mr
Robert Phil	Mr

4 NF

<u>Id Salutation</u>	<u>Salutation</u>
S001	Ms
S001	Ms
S002	Mr
S002	Mr
S002	Mr

<u>Id User</u>	<u>Full Names</u>	<u>Physical Address</u>
U001	Janet Jones	First Street Plot No 4
U001	Janet Jones	First Street Plot No 4
U002	Janet Jones	3 rd Street 34
U002	Janet Jones	3 rd Street 34
U002	Janet Jones	5 th Avenue

<u>Id Salutation</u>	<u>Id User</u>
S001	U001
S001	U001
S002	U002
S002	U002
S002	U002

<u>Id Movie</u>	<u>Movies Oriented</u>
M001	Pirates of Caribbean
M002	Clash of The Titans
M003	Forgetting Sarah Marshal
M004	Daddy's Little Girl
M002	Clash of The Titans

<u>Id User</u>	<u>Id Movie</u>
U001	M001
U001	M002
U002	M003
U002	M004
U002	M002