

Normalization Lab 03

<u>EID</u>	Employee_name	Employee_age	Employee_address	<u>Project_ID</u>	Project_name	<u>Project_location_ID</u>
1	Ahmed	20	Banha	15	Marssa-Matrooh airport	137
1	Ahmed	20	Banha	7	Habata airport	225
2	Ali	25	Cairo	6	Porj-AlArab airport	200
5	Mona	24	Alex	6	Porj-AlArab airport	200
5	Mona	24	Alex	15	Marssa-Matrooh airport	137
5	Mona	24	Alex	23	Cairo airport	55
15	Khaled	32	Cairo	23	Cairo airport	55

1NF Remove Multivalued

<u>EID</u>	Employee_name	Employee_age	Employee_address
1	Ahmed	20	Banha
2	Ali	25	Cairo
5	Mona	24	Alex
15	Khaled	32	Cairo

<u>EID</u>	<u>Project_ID</u>	Project_name	<u>Project_location_ID</u>	Project_location_city	Hours	Bonus
1	15	Marssa-Matrooh airport	137	Matrooh	243	40000.00
1	7	Habata airport	225	Matrooh	193	30000.00
2	6	Porj-AlArab airport	200	Alex	210	32000.00
5	6	Porj-AlArab airport	200	Alex	150	21000.00
5	15	Marssa-Matrooh airport	137	Matrooh	130	9000.00
5	23	Cairo airport	55	Cairo	537	56000.00
15	23	Cairo airport	55	Cairo	33	5000.00

2NF

<u>Project_ID</u>	Project_name	<u>Project_location_ID</u>
15	Marssa-Matrooh airport	137

7	Habata airport	225
6	Porj-AlArab airport	200
23	Cairo airport	55

<u>Location_ID</u>	Project_location_city
137	Matrooh
225	Matrooh
200	Alex
55	Cairo

<u>EID</u>	<u>Project_ID</u>	Hours	Bonus
1	15	243	40000.00
1	7	193	30000.00
2	6	210	32000.00
5	6	150	21000.00
5	15	130	9000.00
5	23	537	56000.00
15	23	33	5000.00

3NF

No Transitive