

1N-F

First Normalisation

EMP_ID (PK)	EMP_NM	DEPT_CD (PK)	PHONE 1	PHONE 2	PHONE 3	DEPT_NM	SKILL_CD	SKILL_NM	SKILL_YRS
73775	Alex	CUS	1111	2222	3333	Billing	782	Clock	5
73775	Alex	CUS	1111	2222	3333	Billing	691	Planner	1
73775	Alex	CUS	1111	2222	3333	Billing	783	Analyst	3
96347	Bill	HIF	4444	5555	6666	Shipping	785	Analyst	2
96347	Bill	HIF	4444	5555	6666	Shipping	386	Typist	2
96347	Bill	HIF	4444	5555	6666	Shipping	005780	Designer	10
87346	Biddy	QP2	7777	8888	9999	Marketing	0050	Sales	2
87346	Cindy	QP2	7777	8888	9999	Marketing	099	Secretary	15
87346	Cindy	QP2	7777	8888	9999	Marketing	316	Typist	4

2NF

SECOND Normalisation.

EMP ID	EMP NM	PHONE 1	PHONE 2	PHONE 3	DEPT - EMP	DEPT SKILL NM
73775	Alex	1111 1111	2222	3333	CUS	Billing
96347	Bill	4444	5555	6666	HIF	Shipping
87346	Cindy	7777 7777	8888	9999	QPR	Marketing

SKILL

SKILLSET

SKILL CD	SKILL-NM	SET-N	SKILL CD EMP-ID	SKILL CD	SKILL-YRS
782	Clock	1)	73775	782	5
691	Planner	2	73775	691	1
783	Analyst	3	73775	783	3
316	Typist	4	96347	783	2
780	Design	5	96347	316	2
005	Sales	6	96347	780	10
099	Secretary	7	87346	005	2
		8	87346	099	15
		9	87346	316	4

3NF

THIRD Normalisation

EMPLOYEE - DEPARTMENT

EMPLOYEE

DEPARTMENT

EMP-ID	EMP-NM	PHONE 1	PHONE 2	PHONE 3	DEPT CD	DEPT-CD	DEPT-NM	ED-N	EMP-ID	DEPT-CD
73775	Alex	1111	2222	3333	CUS	CUS	Billing	73775	-	
96347	Bill	4444	5555	6666	HIF	HIF	Shipping	96347		
87346	Cindy	7777	8888	9999	QP2	QP2	Marketing	87346		
								1	73775	CUS
								2	96347	HIF
								3	87346	QP2

SKILL

SKILL SET

SKILL CD	SKILL NM	SET N	SKILL CD EMP ID	SKILL NM CD	SKILL YRS
782	Clock	1)	73775	782	5
691	Planner	2	73775	691	1
783	Analyst	3	73775	783	3
316	Typist	4	96347	783	2
780	Design	5	96347	316	2
005	Sales	6	96347	780	10
099	Secretary	7	87346	005	2
		8	87346	099	15
		9	87346	316	4