1NF

Name	Position	Email	Workplace	Experience	Graduated
Sim Weng Keet	General Manager	sim@gamuda .com	Sibu	14	UTS
Zaharah Abdul Hafiz	Assistant General Manager	zaharah@ga muda.com	Kuching	5	UiTM
Zaharah Abdul Hafiz	Head of Finance	zaharah@ga muda.com	Kuching	5	UiTM
David Ng	Senior Project Manager	david@gamu da.com	Sibu	5	UNIMAS
David Ng	HR Business Partner	david@gamu da.com	Sibu	5	UNIMAS
Fatin Muhiddin	Finance Executive	fatin@gamud a.com	Bintulu	2	UTS
Alex Jimbun	Head of Marketing	alex@gamud a.com	Sibu	3	UMS

2NF Employee

Employee_ id	Position_id	University _id	Workplace _id	Name	Email	Experience
E01	P01	U01	W01	Sim Weng Keet	sim@gamu da.com	14
E02	P02	U02	W02	Zaharah Abdul Hafiz	zaharah@g amuda.co m	5
E02	P03	U02	W02	Zaharah Abdul Hafiz	zaharah@g amuda.co m	5
E03	P04	U03	W01	David Ng	david@ga muda.com	5
E03	P05	U03	W01	David Ng	david@ga muda.com	5
E04	P06	U01	W03	Fatin Muhiddin	fatin@gam uda.com	2
E05	P07	U04	W01	Alex Jimbun	alex@gam uda.com	3

Position

Position_id	Position
P01	General Manager
P02	Assistant General Manager
P03	Head of Finance
P04	Senior Project Manager
P05	HR Business Partner
P06	Finance Executive
P07	Head of Marketing

Work_Place

Workplace_id	Workplace
W01	Sibu
W02	Kuching
W03	Bintulu

University

University_id	Graduated
U01	UTS
U02	UiTM
U03	UNIMAS
U04	UMS

3NF

Job_Position

Position_id	Position
P01	General Manager
P02	Assistant General Manager
P03	Head of Finance
P04	Senior Project Manager
P05	HR Business Partner
P06	Finance Executive

Job

Employee_id	Position_id
E01	P01
E02	P02
E02	P03
E03	P04
E03	P05
E04	P06
E05	P07

Employees

Employee_id	Name	Email	Experience
E01	Sim Weng Keet	sim@gamuda.com	14
E02	Zaharah Abdul Hafiz	zaharah@gamuda.co m	5
E03	David Ng	david@gamuda.com	5
E04	Fatin Muhiddin	fatin@gamuda.com	2
E05	Alex Jimbun	alex@gamuda.com	3

Office

Employee_id	Workplace_id
E01	W01
E02	W02
E03	W01
E04	W03
E05	W01

Work_Place

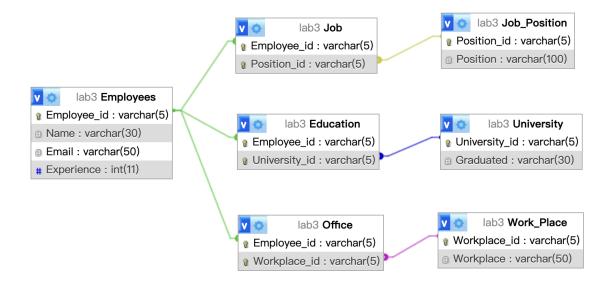
Workplace_id	Workplace
W01	Sibu
W02	Kuching
W03	Bintulu

Education

Employee_id	University_id
E01	U01
E02	U02
E03	U03
E04	U01
E05	U04

University

University_id	Graduated
U01	UTS
U02	UiTM
U03	UNIMAS
U04	UMS



Education

字段	类型	空	默认	链接到	注释	媒体类型
Employee_id (主键)	varchar(5)	否		Employees -> Employee_id		
University_id (主键)	varchar(5)	否		University -> University_id		

索引

键名	类型	唯一	紧凑	字段	基数	排序规则	空	注释
PRIMARY	DTDEE		ж	Employee_id	5	A	否	
PRIMARY	BTREE 是	定	是否	University_id	5	A	否	
University_id	BTREE	否	否	University_id	5	Α	否	

Employees

字段	类型	空	默认	链接到	注释	媒体类型
Employee_id (主键)	varchar(5)	否				
Name	varchar(30)	분	NULL			
Email	varchar(50)	是	NULL			
Experience	int(11)	문	NULL			

索引

键名		类型	唯一	紧凑	字段	基数	排序规则	空	注释
PRIMA	RY	BTREE	是	否	Employee_id	5	Α	否	

Job

字段	类型	空	默认	链接到	注释	媒体类型
Employee_id (主键)	varchar(5)	否		Employees -> Employee_id		
Position_id (主键)	varchar(5)	否		Job_Position -> Position_id		

索引

键名	类型	唯一	紧凑	字段	基数	排序规则	空	注释
PRIMARY	BTREE	1	否	Employee_id	6	A	否	
FOIIVIADT	BINEE	走		Position_id	6	А	否	
Position_id	BTREE	否	否	Position_id	6	Α	否	

Job_Position

字段	类型	空	默认	链接到	注释	媒体类型
Position_id (主键)	varchar(5)	否				
Position	varchar(100)	是	NULL			

索引

键名	类型	唯一	紧凑	字段	基数	排序规则	空	注释
PRIMARY	BTREE	是	否	Position_id	6	Α	否	

Office

字段	类型	空	默认	链接到	注释	媒体类型
Employee_id (主键)	varchar(5)	否		Employees -> Employee_id		
Workplace_id (主键)	varchar(5)	否		Work_Place -> Workplace_id		

索引

键名	类型	唯一	紧凑	湊 字段 基		排序规则	空	注释
PRIMARY	BTREE	_	否	Employee_id	5	Α	否	
FHIMALI	BINCE	定	n n	Workplace_id	5	A	否	
Workplace_id	BTREE	否	否	Workplace_id	5	Α	否	

University

字段	类型	空	默认	链接到	注释	媒体类型
University_id (主键)	varchar(5)	否				
Graduated	varchar(30)	是	NULL			

索引

键名	类型	唯一	緊凑	字段	基数	排序规则	空	注释
PRIMARY	BTREE	是	否	University_id	4	A	否	

Work_Place

字段	类型	空	默认	链接到	注释	媒体类型	
Workplace_id (主键)	varchar(5)	否					
Workplace	varchar(50)	是	NULL				

索引

键名	类型	唯一	紧凑	字段	基数	排序规则	空	注释
PRIMARY	BTREE	是	否	Workplace_id	3	Α	否	

```
CREATE TABLE Job Position (
  Position id VARCHAR(5) PRIMARY KEY,
  Position VARCHAR(100)
);
INSERT INTO Job Position (Position id, Position)
VALUES
  ('P01', 'General Manager'),
  ('P02', 'Assistant General Manager'),
  ('P03', 'Head of Finance'),
  ('P04', 'Senior Project Manager'),
  ('P05', 'HR Business Partner'),
  ('P06', 'Finance Executive');
CREATE TABLE Job (
  Employee_id VARCHAR(5),
  Position id VARCHAR(5),
  PRIMARY KEY (Employee id, Position id),
  FOREIGN KEY (Position id) REFERENCES Job Position(Position id)
);
INSERT INTO Job (Employee id, Position id)
VALUES
  ('E01', 'P01'),
  ('E02', 'P02'),
  ('E02', 'P03'),
  ('E03', 'P04'),
  ('E03', 'P05'),
  ('E04', 'P06');
CREATE TABLE Employees (
  Employee id VARCHAR(5) PRIMARY KEY,
  Name VARCHAR(30),
  Email VARCHAR(50),
  Experience INT
);
INSERT INTO Employees (Employee id, Name, Email, Experience)
```

```
VALUES
  ('E01', 'Sim Weng Keet', 'sim@gamuda.com', 14),
  ('E02', 'Zaharah Abdul Hafiz', 'zaharah@gamuda.com', 5),
  ('E03', 'David Ng', 'david@gamuda.com', 5),
  ('E04', 'Fatin Muhiddin', 'fatin@gamuda.com', 2),
  ('E05', 'Alex Jimbun', 'alex@gamuda.com', 3);
CREATE TABLE Work Place (
  Workplace id VARCHAR(5) PRIMARY KEY,
  Workplace VARCHAR(50)
);
INSERT INTO Work Place (Workplace id, Workplace)
VALUES
  ('W01', 'Sibu'),
  ('W02', 'Kuching'),
  ('W03', 'Bintulu');
CREATE TABLE Office (
  Employee id VARCHAR(5),
  Workplace id VARCHAR(5),
  PRIMARY KEY (Employee id, Workplace id),
  FOREIGN KEY (Employee id) REFERENCES Employees(Employee id),
  FOREIGN KEY (Workplace id) REFERENCES Work Place(Workplace id)
);
INSERT INTO Office (Employee id, Workplace id)
VALUES
  ('E01', 'W01'),
  ('E02', 'W02'),
  ('E03', 'W01'),
  ('E04', 'W03'),
  ('E05', 'W01');
CREATE TABLE University (
  University id VARCHAR(5) PRIMARY KEY,
  Graduated VARCHAR(30)
);
INSERT INTO University (University id, Graduated)
```

```
VALUES
  ('U01', 'UTS'),
  ('U02', 'UiTM'),
  ('U03', 'UNIMAS'),
  ('U04', 'UMS');
CREATE TABLE Education (
  Employee_id VARCHAR(5),
  University_id VARCHAR(5),
  PRIMARY KEY (Employee id, University id),
  FOREIGN KEY (Employee id) REFERENCES Employees(Employee id),
  FOREIGN KEY (University id) REFERENCES University (University id)
);
INSERT INTO Education (Employee_id, University_id)
VALUES
  ('E01', 'U01'),
  ('E02', 'U02'),
  ('E03', 'U03'),
  ('E04', 'U01'),
  ('E05', 'U04');
```