

Kushari Al Rahmani DATABASE

BY:

زياد ربيع محمد 20211513

حسن محمد حسن 20211512



جون بولس جاد الرب 20211511

رياضة وحاسب

Employee Table:

Result Grid			 Filter Rows:	
	ID	employee_name	salary	manger_id
	1	Mohamed Hassan	5000	NULL
	2	Mohamed Osama	4000	1
	3	Zeyad Rabea	4000	1
	4	John Bols	4000	1
	5	FLASH	4000	1
	NULL	NULL	NULL	NULL

Suppliers Table:

Result Grid			 Filter Rows:	
	Supplier	Supplies	employee_ID	
▶	The Queen	Maacaroni	1	
	The United Provision	Rice	1	
	HEINZ	Salsa	1	
	RIHANNA	lentil	1	
	HEINZ	Hot Sauce	1	
	Blastic	Cups	2	
	Blastic	Dishes	3	

Branches Table:

Result Grid

Filter Rows:

	branch	mgr_id	Supplier
▶	Cairo	1	Egyptfoods
	Giza	2	Unitedfoods
	New Cairo	3	Nationalsup

QUERIES

--Creating Database for the facility

```
CREATE database elrahmany;
```

--Creating The Table of employee

```
CREATE TABLE `employee` `
```

```
` ID` int NOT NULL,
```

```
` employee_name` varchar(40) DEFAULT NULL,
```

```
` salary` int DEFAULT NULL,
```

```
` manger_id` int DEFAULT NULL,
```

```
PRIMARY KEY (`ID`),
```

```
KEY `manger_id` (`manger_id`),
```

```
CONSTRAINT `employee_ibfk_1` FOREIGN KEY (`manger_id`) REFERENCES `employee` (`ID`));
```

--Dumping data for table `employee`

```
INSERT INTO `employee` VALUES (1,'Mohamed Hassan',5000,NULL),(2,'Mohamed Osama',4000,1),(3,'Zeyad Rabea',4000,3),(4,'John Bols',4000,2),(5,'FLASH',4000,4);
```

-- Creating The Table Of Suppliers that bring provisions

```
CREATE TABLE `suppliers` `
` Supplier` varchar(40) DEFAULT NULL,
` Supplies` varchar(40) DEFAULT NULL,
` employee_ID` int DEFAULT NULL,
KEY `employee_ID` (`employee_ID`),
CONSTRAINT `suppliers_ibfk_1` FOREIGN KEY (`employee_ID`) REFERENCES `employee` (`ID`));
```

--Dumping data for table `suppliers`

```
INSERT INTO `suppliers` VALUES ('The Queen','Maacaroni',1),('The United Provision','Rice',2),('HEINZ','Salsa',3),('RIHANNA','lentil',4),('HEINZ','Hot Sauce',5),('Blastic','Cups',2),('Blastic','Dishes',3);
```

-- Creating The Table Of Branches

```
CREATE TABLE `Branches` `
` branch` varchar(40)
` mgr_id` INT,
` Supplier` varchar(20),
PRIMARY KEY (mgr_id),
FOREIGN KEY (mgr_id) REFERENCES `employee`(manger_id);(
```

-- Dumping data for table `Branchess`

```
INSERT INTO `Branches` VALUES ('Cairo', 1,'Egyptfoods'),('Giza',2,'Unitedfoods'),('New Cairo',3,'Nationalsup');
```

--To Show us What We have inserted in the table

```
SELECT * FROM employee;
```

-- To show us only the different values

```
SELECT DISTINCT `mgr_id` FROM `employee` ;`
```

-- Knowing how much employees take in total salary

```
SELECT SUM(salary) FROM employee;
```

-- Used To Insert certain things in both tables

```
INSERT INTO suppliers VALUES('Blastic','Dishes',3);
```

-- Used to modify COLUMNS in table

```
ALTER TABLE table_n  
ADD column_n;
```

-- Used to select only the data that matches the condition

```
SELECT * FROM branches  
WHERE mgr_id=1;
```

--Used to select only the data that matches the condition (AND OR) multiple conditions

```
SELECT * FROM employee  
WHERE salary > 2000 OR ID=3;
```

--Used to sort columns by specific order(s) (ascending or descending)

```
SELECT COUNT(ID) FROM employee  
ORDER BY COUNT(ID) ASC;
```

--Used to test for empty values

```
SELECT * FROM branches  
WHERE `mgr_id` IS NOT NULL;
```

--Used to modify existing record in table

```
UPDATE employee  
SET salary= 3000  
WHERE ID=4;
```

--Used to delete (entire/specific) records in table

```
DELETE FROM suppliers WHERE employee_ID=4;
```

--Used to specify number of records to return

```
SELECT TOP 5 FROM employee;
```

--Used to return smallest/largest value of selected column

```
SELECT MIN(ID) FROM employee;
```

--Used to search for a specific pattern in a column

```
SELECT * FROM employee  
WHERE employee_name LIKE "a%" OR "_a;"_
```

--Used to specify multiple values in a WHERE clause

```
SELECT * FROM suppliers  
WHERE employee_ID IN (SELECT * FROM employee);
```

--Used to select values between given ranges

```
SELECT * FROM employee  
WHERE ID BETWEEN 2 AND 6;
```

--Used to give a table, column a temporary name

```
SELECT suppliers.employee_ID AS ID  
FROM suppliers;
```

--Used to select records that have matching values in both tables

```
SELECT ID  
FROM employee  
INNER JOIN ID  
ON employee.ID = suppliers.employee_ID;
```

--Used to combine multiple select statements

```
SELECT * FROM employee  
UNION  
SELECT * FROM branches;
```

--Used to group rows that has the same values

```
SELECT COUNT(mgr_id), branch FROM branches  
GROUP BY branch  
ORDER BY COUNT(mgr_id) DESC;
```

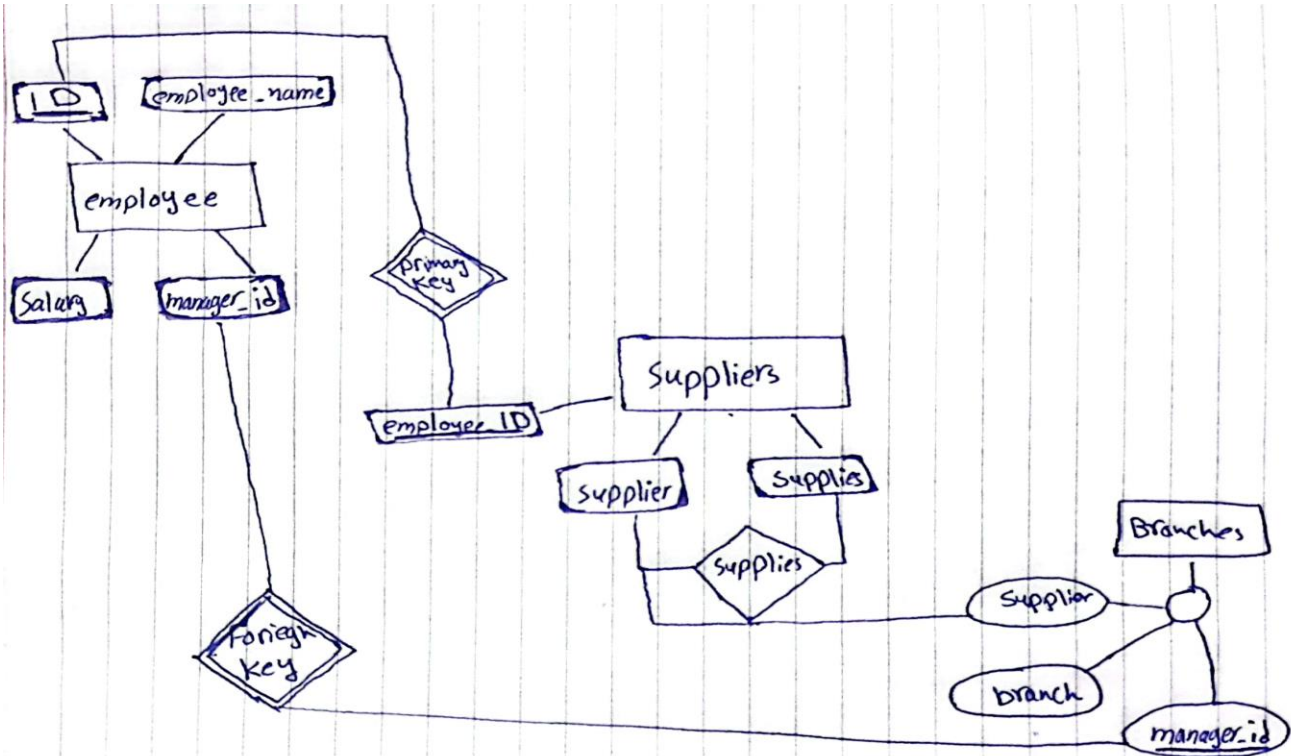
--Used to specify a condition when WHERE cannot be used

```
SELECT COUNT(ID), employee_name  
FROM employee  
HAVING COUNT(ID) > 1;
```

--Used to test existence of any record

```
SELECT * FROM employee  
WHERE EXISTS  
(SELECT * FROM suppliers WHERE employee_ID >1);
```

ER Design



employee
ID INT(11)
employee_name VARCHAR(40)
salary INT(11)
mgr_id INT(11)
Indexes
PRIMARY
mgr_id

branches
branch VARCHAR(40)
mgr_id INT(11)
Supplier VARCHAR(20)
Indexes
PRIMARY

suppliers
Supplier VARCHAR(40)
Supplies VARCHAR(40)
employee_ID INT(11)