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Mohammed Abu-Hadhoud

MSA, PMOC, PMP®, PRP®, PSE-ITP®, CS, ITIL, MCP®, MCSD



لا تنسى الاشتراك في قناتنا على اليوتيوب ومشاركة القناة مع اصدقائك
لتعم الفائدة للجميع وانقاذ الاف الناس من التشتت جزاكم الله خيرا
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هذا الملف للمراجعة السريعة واخذ الملاحظات عليه فقط ،لانه يحتوي على اقل من 20% مما يتم شرحه في الفيديوهات الاستعجال والاعتماد عليه فقط سوف يجعلك تخسر كميه معلومات وخبرات كثيره

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Database Level 1 SQL (Concepts & Practice)

Primary Key vs Foreign Key



Mohammed Abu-Hadhoud

MBA, PMOC, PgMP®, PMP®, PMI-RMP®, CM, ITILF, MCPD, MCSD



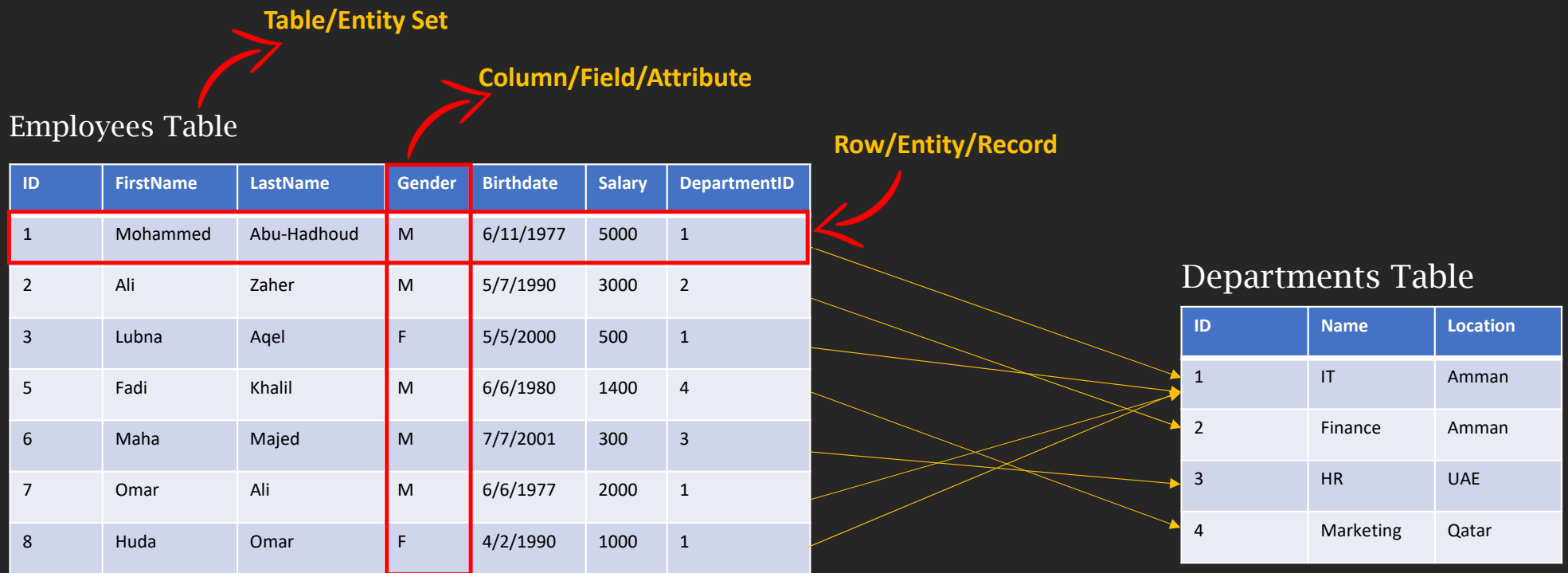
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In RDBMS.

Data that is stored in an organized fashion in tables containing rows and columns along with relations between these tables.



Primary Key vs Foreign Key

Primary Key

Employees Table

ID 	FirstName	LastName	Gender	Birthdate	Salary	DepartmentID
1	Mohammed	Abu-Hadhoud	M	6/11/1977	5000	1
2	Ali	Zaher	M	1/1/2000	500	2
3	Lubna	Aqel	F	5/5/2000	500	1
5	Fadi	Khalil	M	6/6/1980	1400	4
6	Maha	Majed	M	7/7/2001	300	3
7	Omar	Ali	M	6/6/1977	2000	1
8	Huda	Omar	F	4/2/1990	1000	1

Primary Key

Departments Table

ID 	Name	Location
1	IT	Amman
2	Finance	Amman
3	HR	UAE
4	Marketing	Qatar

Foreign Key

Primary Key

- A primary key is a column or set of columns in a relational database table that uniquely identifies each row or record in the table.
- It is a unique identifier for each record and serves as a reference point for other tables that have a relationship with the table in question.
- Each table in a relational database must have a primary key, and it should be a non-null value that is unique and stable over time.
- Primary Key should not be changed.

Foreign Key

- A foreign key, on the other hand, is a column or set of columns in a table that refers to the primary key of another table.
- It establishes a relationship between two tables, allowing data to be shared and linked between them.
- The foreign key ensures that referential integrity is maintained by ensuring that any value in the foreign key column must exist in the primary key column of the related table.

Summary

- In summary, a primary key uniquely identifies a record in a table, while a foreign key establishes a relationship between two tables by referencing the primary key of another table.



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Thank You

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