**SQL joining through referential integrity**

Referential Integrity

A **REFERENTIAL INTEGRITY** is a database concept that is used to build and maintain logical relationships between tables to avoid logical corruption of data. It is a very useful and important part in **RDBMS**.

Usually, referential integrity is made up of the combination of a **primary key** and a **foreign key**.

The main concept of **REFERENTIAL INTEGRITY** is that it does not allow to add any record in a table that contains the **foreign key** unless the reference table containing a corresponding **primary key**.

If any record in referenced table (i.e. the table who contain primary key) is deleted, all the corresponding records in the referencing table will be deleted for the referential integrity.

**Example:**

**Sample table: agents**

**Sample table: orders**

To get 'agent\_code' and 'agent\_name' from 'agents' table and 'ord\_num' and 'advance\_amount' form 'orders' after a joining with following conditions -

**1.** 'agent\_code' is primary key in 'agents' table

**2.** 'agent\_code' is a foreign key in orders table which is referring to the primary key of 'agents' table.

**3.** 'agent\_code' of 'agents' and 'orders' must be same.

the following **SQL statement** can be used:

**SQL Code:**

SELECT agents.agent\_code,agents.agent\_name,

orders.ord\_num,orders.advance\_amount

FROM agents,orders

WHERE agents.agent\_code=orders.agent\_code;

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Output:

AGENT\_CODE AGENT\_NAME ORD\_NUM ADVANCE\_AMOUNT

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A008 Alford 200114 2000

A004 Ivan 200122 400

A006 McDen 200118 100

A010 Santakumar 200119 700

A004 Ivan 200121 600

A011 Ravi Kumar 200130 400

A005 Anderson 200134 1800

A004 Ivan 200108 600

A005 Anderson 200103 700

A011 Ravi Kumar 200105 500

A010 Santakumar 200109 800

A008 Alford 200101 1000

A008 Alford 200111 300

A004 Ivan 200104 500

A002 Mukesh 200106 700

A005 Anderson 200125 600

A001 Subbarao 200117 200

A002 Mukesh 200123 100

A002 Mukesh 200120 100

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