Using Joins – Displaying data from multiple tables

CROSS JOIN

- Table diagnosis_table

Name Type

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DIAG_ID NUMBER(32,6)

ENC_ID NUMBER(32,6)

DIAG_PRIORITY NUMBER(32,6)

THIRDPARTY_IND NUMBER(32,6)

CROSS JOIN

SQL Code

- select p.diag_id, e.enc_id from diagnosis_table p CROSS JOIN encounter e
- diagnosis_table has 32 rows
- Encounter has 199 rows
- Results will show 199*32=6368 rows

INNER JOIN

SQL Code

- select p.diag_id, e.enc_id from diagnosis_table p INNER JOIN encounter e on p.enc_id=e.enc_id
- Joining data items from tables, based on common enc_id
- Results will show 32 rows
- Multiple tables (two or more tables) can be linked only if they have common values (in this case, enc_id)

LEFT OUTER JOIN

SQL Code

- select p.diag_id, e.enc_id from diagnosis_table p left OUTER JOIN encounter e on p.enc_id=e.enc_id

– A LEFT [OUTER] JOIN returns all valid rows from the table on the left side of the JOIN keyword, along with the values from the table on the right side, or NULLs if a matching row doesn't exist.

– Results will show 32 rows

RIGHT OUTER JOIN

SQL Code

- select p.diag_id, e.enc_id from diagnosis_table p right OUTER JOIN encounter e on p.enc_id=e.enc_id

– The RIGHT [OUTER] JOIN is the opposite of the LEFT [OUTER] JOIN. It returns all valid rows from the table on the right side of the JOIN keyword, along with the values from the table on the left side, or NULLs if a matching row doesn't exist.

– Results will show 221 rows

FULL OUTER JOIN

SQL Code

- select p.diag_id, e.enc_id from diagnosis_table p full OUTER JOIN encounter e on p.enc_id=e.enc_id

– A FULL [OUTER] JOIN combines all the rows from the tables on the left and right sides of the join. If there is a conventional match it is made. If either side has missing data, it is replaced by NULLs, rather than throwing the row away.

– Results will show 221 rows