JOINS

INNER JOINS

OUTER JOINS

LEFT OUTER JOINS

RIGHT OUTER JOINS

FULL OUTER JOINS

CROSS JOINS

SELF JOINS

INNER JOINS:

CREATE TABLE RAKE(DIS\_ID NUMBER(1),RAKE\_NO VARCHAR2(20),COACH\_TYPE VARCHAR2(20))

INSERT INTO RAKE VALUES(1,'VB 1','AC')

INSERT INTO RAKE VALUES(2,'VB 2','AC')

INSERT INTO RAKE VALUES(3,'VB 3','NON AC')

INSERT INTO RAKE VALUES(4,'VB 4','AC')

CREATE TABLE COACH(DIS\_ID NUMBER(1),COACH\_NO VARCHAR2(20),COACH\_TYPE VARCHAR2(20))

INSERT INTO COACH VALUES(5,'DTC 1','AC')

INSERT INTO COACH VALUES(6,'TC 1','AC')

INSERT INTO COACH VALUES(7,'MC 1','AC')

INSERT INTO COACH VALUES(8,'NDTC 1','AC')

INNER JOINS:

SELECT \* FROM RAKE

SELECT \* FROM COACH

SELECT R.DIS\_ID,R.RAKE\_NO,C.DIS\_ID,C.COACH\_NO

FROM RAKE R,COACH C

WHERE R.COACH\_TYPE=C.COACH\_TYPE

LEFT JOINS:

SELECT R.DIS\_ID,R.RAKE\_NO,C.DIS\_ID,C.COACH\_NO

FROM RAKE R,COACH C

WHERE R.COACH\_TYPE=C.COACH\_TYPE(+)

SELECT R.DIS\_ID,R.RAKE\_NO,C.DIS\_ID,C.COACH\_NO

FROM RAKE R LEFT OUTER JOIN COACH C

ON R.COACH\_TYPE=C.COACH\_TYPE

RIGHT JOINS:

SELECT R.DIS\_ID,R.RAKE\_NO,C.DIS\_ID,C.COACH\_NO

FROM RAKE R,COACH C

WHERE R.COACH\_TYPE(+)=C.COACH\_TYPE

SELECT R.DIS\_ID,R.RAKE\_NO,C.DIS\_ID,C.COACH\_NO

FROM RAKE R RIGHT OUTER JOIN COACH C

ON R.COACH\_TYPE=C.COACH\_TYPE

FULL OUTER JOINS:

SELECT R.DIS\_ID,R.RAKE\_NO,C.DIS\_ID,C.COACH\_NO

FROM RAKE R FULL OUTER JOIN COACH C

ON R.COACH\_TYPE=C.COACH\_TYPE

CROSS JOINS:

SELECT R.DIS\_ID,R.RAKE\_NO,C.DIS\_ID,C.COACH\_NO

FROM RAKE R,COACH C

SELF JOINS:

SELECT \*FROM EMPLOYEES

SELECT E.EMPLOYEE\_ID,E.FIRST\_NAME,E.MANAGER\_ID,M.FIRST\_NAME

FROM EMPLOYEES E,EMPLOYEES M

WHERE E.MANAGER\_ID=M.EMPLOYEE\_ID

ANALYTICAL FUNCTION:

RANK

DENSE RANK

LEAD

LAG

ROW\_NUMBER

RANK:

SELECT FIRST\_NAME,DEPARTMENT\_ID,RANK() OVER(ORDER BY DEPARTMENT\_ID DESC) FROM EMPLOYEES

SELECT EMPLOYEE\_ID,FIRST\_NAME,DEPARTMENT\_ID,RANK() OVER(ORDER BY DEPARTMENT\_ID DESC) FROM EMPLOYEES

SELECT EMPLOYEE\_ID,FIRST\_NAME,DEPARTMENT\_ID,RANK() OVER(ORDER BY DEPARTMENT\_ID ASC) FROM EMPLOYEES

DENSE RANK:

SELECT EMPLOYEE\_ID,FIRST\_NAME,DEPARTMENT\_ID,DENSE\_RANK() OVER(ORDER BY DEPARTMENT\_ID DESC) FROM EMPLOYEES

SELECT EMPLOYEE\_ID,FIRST\_NAME,DEPARTMENT\_ID,RANK() OVER(ORDER BY DEPARTMENT\_ID DESC),DENSE\_RANK() OVER(ORDER BY DEPARTMENT\_ID DESC) FROM EMPLOYEES

LEAD:

SELECT FIRST\_NAME,LAST\_NAME,SALARY,LEAD(FIRST\_NAME) OVER(ORDER BY FIRST\_NAME) NEXT\_PERSON FROM EMPLOYEES

LAG:

SELECT FIRST\_NAME,LAST\_NAME,SALARY,LAG(FIRST\_NAME) OVER(ORDER BY FIRST\_NAME) PREV\_PERSON FROM EMPLOYEES

ROW\_NUMBER:

SELECT FIRST\_NAME,LAST\_NAME,SALARY,ROW\_NUMBER() OVER(ORDER BY EMPLOYEE\_ID) FROM EMPLOYEES