

ASSIGNMENT NO: 05

a) Get the title and publisher names of all books. (EQUI JOIN)

```
SELECT
  c.Title,
  p.Name AS Publisher_Name
FROM
  catalog009 c
JOIN
  publisher009 p ON c.Publisher_Id = p.Publisher_Id;
```

Query Result x

SQL | All Rows Fetched: 40 in 0.042 seconds

TITLE	PUBLISHER_NAME
1 201 Principles of Software Development	McGraw-Hill
2 A Guide to SCM	Artech House
3 Airport	Corgi Books
4 Beachcombing at Miramar	Warner Books
5 Beyond Soap, Water and Comb	Abbeville Press Publishers
6 Biplane	Dell Publishing
7 Business Notes	Clarkson N. Porter
8 Catch 22	Random House
9 Computers for Everyone	Leon Vikas
10 Countdown 2000	Tata McGraw-Hill

b) Get the title and publisher names of all books that are priced above 1000. (NON-EQUI JOIN / GREATER-THAN JOIN)

```
SELECT
  c.Title,
  p.Name AS Publisher_Name
FROM
  catalog009 c
JOIN
  publisher009 p ON c.Publisher_Id = p.Publisher_Id
WHERE
  c.Price > 1000;
```

Query Result x

SQL | All Rows Fetched: 2 in 0.004 seconds

TITLE	PUBLISHER_NAME
1 A Guide to SCM	Artech House
2 Death March	Prentice Hall PTR

c) Get the title, author name, country and price of all the books with India-based authors and price less than 500. (NON_EQUI JOIN / LESS_THAN JOIN)

```
SELECT
  c.Title,
  a.Name AS Author_Name,
  a.Country,
  c.Price
FROM
  catalog009 c
JOIN
  author009 a ON c.Author_Id = a.Author_Id
WHERE
  a.Country = 'India' AND
  c.Price < 500;
```

Query Result x

SQL | All Rows Fetched: 6 in 0.008 seconds

TITLE	AUTHOR_NAME	COUNTRY	PRICE
1 Computers for Everyone	Alexis Leon	India	200
2 E-Biz Primer	Mathews Leon	India	325
3 ERP Demystified	Alexis Leon	India	397
4 Internet for Everyone	Mathews Leon	India	299
5 The End of Imagination	Arundhati Roy	India	350
6 The Legends of Khasak	O.V.Vijayan	India	270

d) Get the details of all the books with their categorical descriptions that are priced above 1000. (NATURAL JOIN)

```

SELECT
    c.Book_Id,
    c.Title,
    c.Author_Id,
    c.Publisher_Id,
    c.Category_Id,
    c.Year,
    c.Price,
    cat.Description AS Category_Description
FROM
    catalog009 c
NATURAL JOIN
    category009 cat
WHERE
    c.Price > 1000;

```

Query Result x

SQL | Executing: SELECT c.Book_Id, c.Title, c.Author_Id, c.Publisher_Id, c.Category_Id, c.Year, c.Price, cat.Description
ORA-25155: column used in NATURAL join cannot have qualifier

e) Find out the titles that have the same price. (SELF JOIN)

```

SELECT a.Title AS Title1, b.Title AS Title2,
       a.Price FROM catalog009 a JOIN catalog009 b
ON a.Price = b.Price WHERE a.Book_Id <> b.Book_Id;

```

Query Result x

SQL | All Rows Fetched: 2 in 0.031 seconds

	TITLE1	TITLE2	PRICE
1	Hotel	Airport	175
2	Airport	Hotel	175

f) Get the title, author name, publisher name and category name of all books that are published after 2008.

```

SELECT c.Title, a.Name AS Author_Name,
       p.Name AS Publisher_Name,
       cat.Description AS Category_Name
FROM catalog009 c JOIN author009 a
ON c.Author_Id = a.Author_Id JOIN
publisher009 p ON
c.Publisher_Id = p.Publisher_Id
JOIN category009 cat ON
c.Category_Id = cat.Category_Id
WHERE c.Year > 2008;

```

Query Result x

SQL | All Rows Fetched: 0 in 0.005 seconds

TITLE	AUTHOR...	PUBLISHE...	CATEGOR...
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g) Get the details of order which was ordered by a member. (INNER JOIN)

```

SELECT o.Order_No, o.Member_Id,
       o.Order_Date, o.Amount, o.Order_Status,
       m.Name AS Member_Name FROM ordersum009 o
JOIN member009 m ON o.Member_Id = m.Member_Id;

```

Query Result x

SQL | All Rows Fetched: 10 in 0.008 seconds

	ORDER_NO	MEMBER_ID	ORDER_DATE	AMOUNT	ORDER_STATUS	MEMBER_NAME
1	11096733	C01	25-02-00	2038.3	Shipped	M. Leon
2	11364223	C03	07-04-00	1237.5	Shipped	S. Gupta
3	12806544	C05	30-04-00	159.5	Shipped	R. Mishra
4	13976453	C03	25-07-00	3575	Cancelled	S. Gupta
5	26970379	C01	25-07-00	3897.3	Shipped	M. Leon

h) By a SQL statement, show how LEFT OUTER JOIN works.

```
SELECT c.Title, p.Name AS Publisher_Name
FROM catalog009 c LEFT JOIN publisher009
p ON c.Publisher_Id = p.Publisher_Id;
```

Query Result x

SQL | All Rows Fetched: 40 in 0.007 seconds

	TITLE	PUBLISHER_NAME
1	Beyond Soap, Water and Comb	Abbeville Press Publishers
2	Managing Technical People	Addison-Wesley
3	Managing the Software Process	Addison-Wesley

i) By a SQL statement, show how RIGHT OUTER JOIN works.

```
SELECT c.Title, p.Name AS Publisher_Name
FROM catalog009 c RIGHT JOIN publisher009 p
ON c.Publisher_Id = p.Publisher_Id;
```

Query Result x

SQL | All Rows Fetched: 40 in 0.006 seconds

	TITLE	PUBLISHER_NAME
1	201 Principles of Software Development	McGraw-Hill
2	A Guide to SCM	Artech House
3	Airport	Corgi Books

j) By a SQL statement, show how FULL OUTER JOIN works.

```
SELECT c.Title, p.Name AS Publisher_Name FROM
catalog009 c FULL OUTER JOIN publisher009 p
ON c.Publisher_Id = p.Publisher_Id;
```

Query Result x

SQL | All Rows Fetched: 40 in 0.009 seconds

	TITLE	PUBLISHER_NAME
1	201 Principles of Software Development	McGraw-Hill
2	A Guide to SCM	Artech House
3	Airport	Corgi Books

k) By a SQL statement, show how CARTESIAN PRODUCT works.

```
SELECT c.Title, p.Name AS Publisher_Name
FROM catalog009 c, publisher009 p;
```

Query Result x

SQL | Fetched 50 rows in 0.004 seconds

	TITLE	PUBLISHER_NAME
1	201 Principles of Software Development	Abbeville Press Publishers
2	A Guide to SCM	Abbeville Press Publishers
3	Airport	Abbeville Press Publishers

l) Get the details of all authors and publishers in India ordered by name.

```
SELECT a.Name AS Author_Name, p.Name AS Publisher_Name
FROM author009 a JOIN publisher009 p ON
a.Country = 'India' AND p.Country = 'India' ORDER BY a.Name;
```

Query Result x

SQL | All Rows Fetched: 20 in 0.006 seconds

	AUTHOR_NAME	PUBLISHER_NAME
1	Alexis Leon	DC Books
2	Alexis Leon	Leon Vikas
3	Alexis Leon	Penguin Books
4	Alexis Leon	Tata McGraw-Hill
5	Arundhati Roy	DC Books