

PIM Training Program

SQL

Joins

Learning Objective

At the end of the module, the learner should be able to join multiple tables to consolidate the data you need.



Learning Objectives



Agenda

- Entity relationship
- Joins Recap
- Joining Two or More Tables
- INNER vs. OUTER Joins
- WHERE Clause Conditions w/ OUTER Joins
- One-to-Many Joins



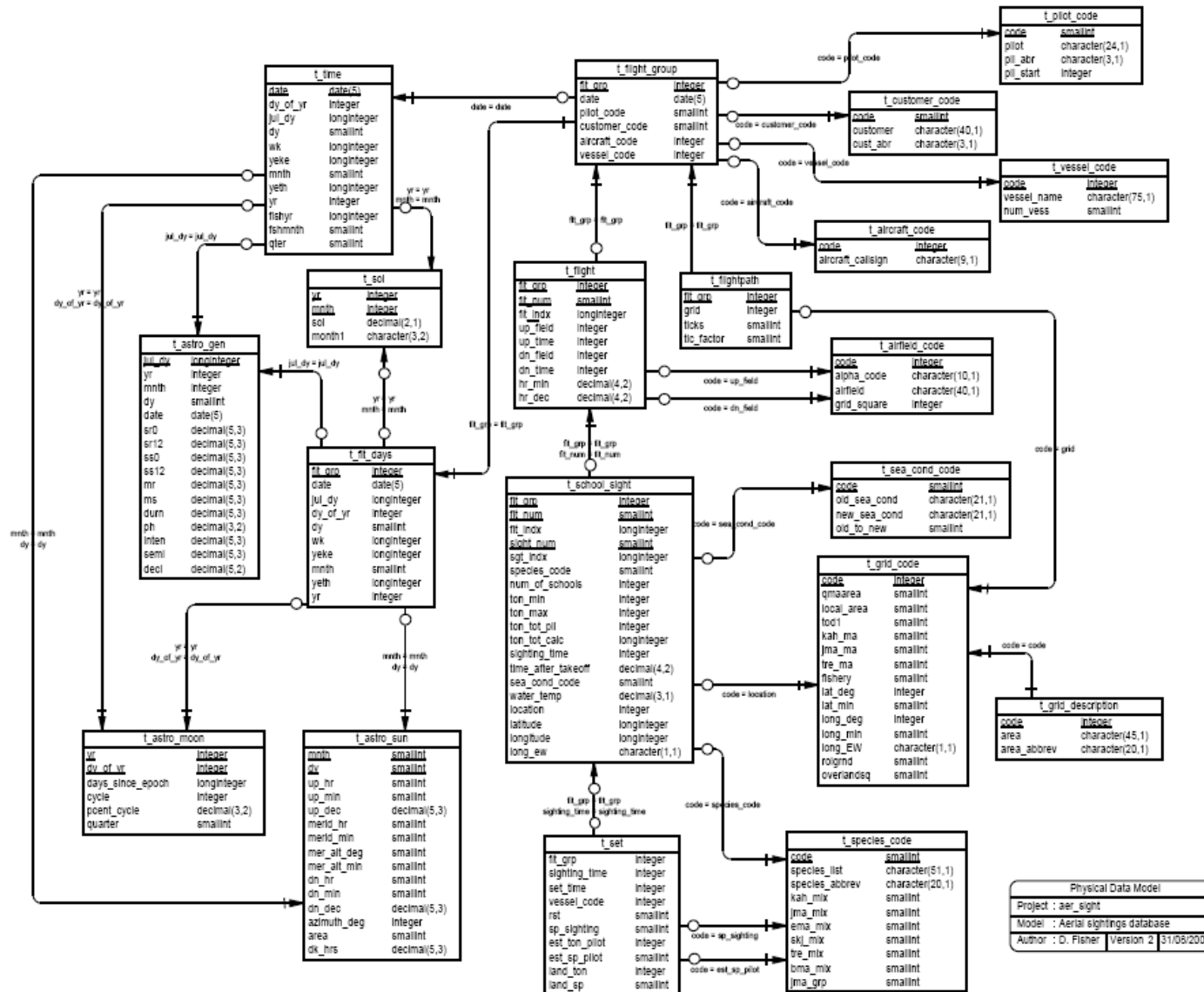
Entity Relationship

Entity Relationship

An **entity relationship** diagram (ERD) shows the **relationships** of **entity** sets stored in a database. An **entity** in this context is an object, a component of data. An **entity** set is a collection of similar **entities**. These **entities** can have attributes that define their properties.



Entity Relationship



This is an example of an entity relationship model

Amazon Data Warehouse

BOOKER

1,349 Tables w/ 33,692 Columns

+

~300 Virts/Sandboxes

Supporting hundreds of different functional areas, from customer orders to purchase orders to email campaigns to glance views to Andon cords, etc.



Joins Recap

Lets refresh our knowledge on Joins

- What is Join
- Types of Join
- Application of Join



Joining Two or More Tables

Joining Two or More Tables

D_MP_ASINS_ESSENTIALS	
REGION_ID [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [PK:2]	NUMBER(38,0)
ASIN [PK:1]	CHAR(10)
BASE_CURRENCY_CODE	VARCHAR2(15)
CATEGORY_CODE	VARCHAR2(96)
GL_PRODUCT_GROUP	NUMBER(10,0)
GL_PRODUCT_GROUP_DESC	VARCHAR2(100)
ITEM_NAME	VARCHAR2(400)
MSRP	NUMBER(18,4)
MSRP_TAX_AMOUNT	NUMBER(18,4)
PRODUCT_AVAILABLE_DAY	DATE
PRODUCT_SITE_LAUNCH_DAY	DATE
PRODUCT_TIER_ID	VARCHAR2(50)
PUBLICATION_DAY	DATE
STREET_DAY	DATE
SUBCATEGORY_CODE	VARCHAR2(96)
DW_CREATION_DATE	DATE
DW_LAST_UPDATED	DATE
IS_DELETED	CHAR(1)
VERSION	NUMBER(38,0)

D_MP_ASINS_ESSENTIALS

Contains the most used ASIN attributes, like ITEM_NAME, MSRP, and GL_PRODUCT_GROUP

Primary Key is the unique combination of the following:

- REGION_ID
- MARKETPLACE_ID
- ASIN

Partitioned by:

- REGION_ID
- MARKETPLACE_ID



Joining Two or More Tables

D_DAILY_ORDERS

Contains aggregated daily sales information for each ASIN, in each Region Marketplace, for each condition, merchant, etc.

Doesn't have item name.

Partitioned by:

- REGION_ID
- ACTIVITY_DAY

D_DAILY_ORDERS	
REGION_ID [Part:1]	NUMBER(2,0)
LEGAL_ENTITY_ID	NUMBER(38,0)
MARKETPLACE_ID	NUMBER(38,0)
ACTIVITY_DAY [Part:2]	DATE
ASIN	CHAR(10)
MERCHANT_CUSTOMER_ID	NUMBER(38,0)
EXCHANGE_ITEM_CONDITION_ID	NUMBER(2,0)
ORDER_TYPE	VARCHAR2(10)
FREE_REP_REASON_CODE	VARCHAR2(80)
ORDER_METHOD	VARCHAR2(1)
IS_NYP	CHAR(1)
COI_GL_PRODUCT_GROUP	NUMBER(4,0)
BASE_CURRENCY_CODE	VARCHAR2(10)
FULFILLMENT_MANAGER_ID	NUMBER(38,0)
OFFERING_SKU	VARCHAR2(40)
ORDERED_UNITS	NUMBER(38,0)
ORDERED_AMT	NUMBER(38,14)
ADJUSTED_UNITS	NUMBER(38,0)
ADJUSTED_AMT	NUMBER(38,14)
...	
...	
SHIPCHRG_DISC_SAMEDAYCANC_AMT	NUMBER(38,14)
GIFTWRAP_DISC_AMT	NUMBER(38,14)
GIFTWRAP_DISC_ADJUSTED_AMT	NUMBER(38,14)
GIFTWRAP_DISC_SAMEDAYCANC_AMT	NUMBER(38,14)



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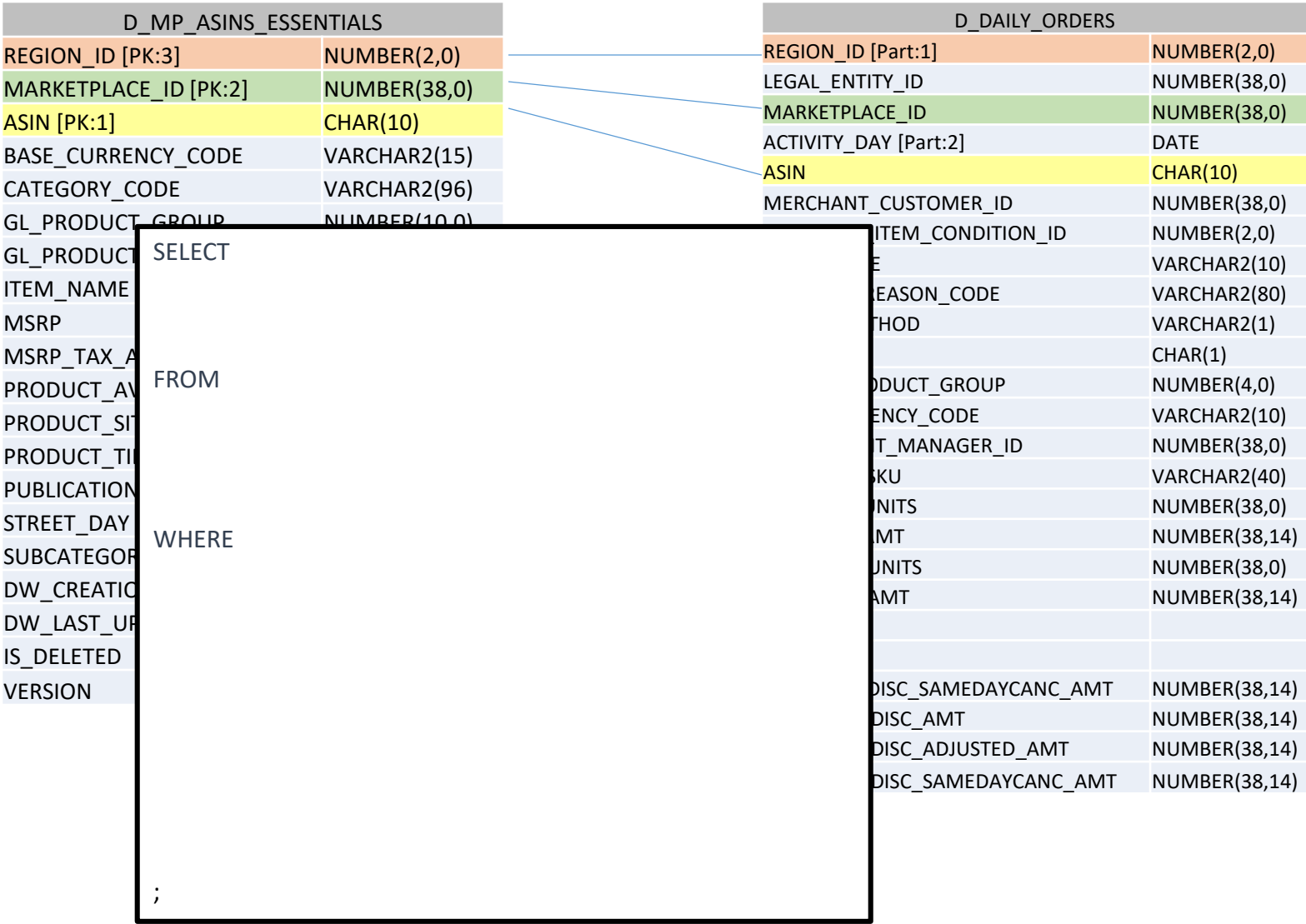
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GL_PRODUCT_GROUP_DESC	VARCHAR2(100)
ITEM_NAME	VARCHAR2(100)
MSRP	NUMBER(10,2)
MSRP_TAX	NUMBER(10,2)
PRODUCT_A	NUMBER(10,0)
PRODUCT_S	NUMBER(10,0)
PRODUCT_T	NUMBER(10,0)
PUBLICATION_DAY	DATE
STREET_DAY	DATE
SUBCATEGORY_CODE	VARCHAR2(96)
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REASON_CODE	VARCHAR2(80)
METHOD	VARCHAR2(1)
PRODUCT_GROUP	NUMBER(4,0)
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Which US Book ASINs, if any, sold greater than or equal to 1000 units yesterday?



Joining Two or More Tables



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CATEGORY_CODE	VARCHAR2(96)
GL_PRODUCT_GROUP	NUMBER(10,0)
GL_PRODUCT_GROUP_DESC	VARCHAR2(100)
ITEM_NAME	
MSRP	
MSRP_TAX	
PRODUCT_A	
PRODUCT_S	
PRODUCT_T	
PUBLICATION	
STREET_DA	
SUBCATEGORY	
DW_CREAT	
DW_LAST_U	
IS_DELETED	
VERSION	

D_DAILY_ORDERS	
REGION_ID [Part:1]	NUMBER(2,0)
LEGAL_ENTITY_ID	NUMBER(38,0)
MARKETPLACE_ID	NUMBER(38,0)
ACTIVITY_DAY [Part:2]	DATE
ASIN	CHAR(10)
MERCHANT_CUSTOMER_ID	NUMBER(38,0)
EXCHANGE_ITEM_CONDITION_ID	NUMBER(2,0)
PE	VARCHAR2(10)
REASON_CODE	VARCHAR2(80)
METHOD	VARCHAR2(1)
	CHAR(1)
PRODUCT_GROUP	NUMBER(4,0)
CURRENCY_CODE	VARCHAR2(10)
AGENT_MANAGER_ID	NUMBER(38,0)
_SKU	VARCHAR2(40)
_UNITS	NUMBER(38,0)
_AMT	NUMBER(38,14)
_UNITS	NUMBER(38,0)
_AMT	NUMBER(38,14)
_DISC_SAMEDAYCANC_AMT	NUMBER(38,14)
_DISC_AMT	NUMBER(38,14)
_DISC_ADJUSTED_AMT	NUMBER(38,14)
_DISC_SAMEDAYCANC_AMT	NUMBER(38,14)

```
SELECT
FROM D_MP_ASINS_ESSENTIALS dma
WHERE
;

```

Joining Two or More Tables

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REGION_ID [PK:3]	NUMBER(2,0)
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DW_LAST_U	
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_SKU	VARCHAR2(40)
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_DISC_SAMEDAYCANC_AMT	NUMBER(38,14)
_DISC_AMT	NUMBER(38,14)
_DISC_ADJUSTED_AMT	NUMBER(38,14)
_DISC_SAMEDAYCANC_AMT	NUMBER(38,14)

```
SELECT
FROM D_MP_ASINS_ESSENTIALS dma
JOIN D_DAILY_ORDERS ddo
WHERE
;

```

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REGION_ID [PK:3]	NUMBER(2,0)
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DISC_SAMEDAYCANC_AMT	NUMBER(38,14)
DISC_AMT	NUMBER(38,14)
DISC_ADJUSTED_AMT	NUMBER(38,14)
DISC_SAMEDAYCANC_AMT	NUMBER(38,14)

```
SELECT
FROM D_MP_ASINS_ESSENTIALS dma
JOIN D_DAILY_ORDERS ddo
  ON dma.REGION_ID = ddo.REGION_ID
WHERE
;

```

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D_MP_ASINS_ESSENTIALS	
REGION_ID [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [PK:2]	NUMBER(38,0)
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BASE_CURRENCY_CODE	VARCHAR2(15)
CATEGORY_CODE	VARCHAR2(96)
GL_PRODUCT_GROUP	NUMBER(10,0)
GL_PRODUCT_GROUP_DESC	VARCHAR2(100)
ITEM_NAME	SELECT
MSRP	
MSRP_TAX	
PRODUCT_A	
PRODUCT_S	FROM D_MP_ASINS_ESSENTIALS
PRODUCT_T	JOIN D_DAILY_ORDERS ddo
PUBLICATION	ON dma.REGION_ID = ddo.REG
STREET_DA	AND dma.MARKETPLACE_ID =
SUBCATEGORY	WHERE
DW_CREAT	
DW_LAST_U	
IS_DELETED	
VERSION	

D_DAILY_ORDERS	
REGION_ID [Part:1]	NUMBER(2,0)
LEGAL_ENTITY_ID	NUMBER(38,0)
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_DISC_SAMEDAYCANC_AMT	NUMBER(38,14)

```
SELECT

FROM D_MP_ASINS_ESSENTIALS dma
JOIN D_DAILY_ORDERS ddo
    ON dma.REGION_ID = ddo.REGION_ID
    AND dma.MARKETPLACE_ID = ddo.MARKETPLACE_ID

WHERE
```

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DISC_SAMEDAYCANC_AMT	NUMBER(38,14)
DISC_AMT	NUMBER(38,14)
DISC_ADJUSTED_AMT	NUMBER(38,14)
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JOIN D_DAILY_ORDERS ddo
  ON dma.REGION_ID = ddo.REGION_ID
  AND dma.MARKETPLACE_ID = ddo.MARKETPLACE_ID
  AND dma.ASIN = ddo.ASIN
WHERE
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SUBCATEGORY	
DW_CREAT	
DW_LAST_U	
IS_DELETED	
VERSION	

D_DAILY_ORDERS	
REGION_ID [Part:1]	NUMBER(2,0)
LEGAL_ENTITY_ID	NUMBER(38,0)
MARKETPLACE_ID	NUMBER(38,0)
ACTIVITY_DAY [Part:2]	DATE
ASIN	CHAR(10)
MERCHANT_CUSTOMER_ID	NUMBER(38,0)
EXCHANGE_ITEM_CONDITION_ID	NUMBER(2,0)
PE	VARCHAR2(10)
REASON_CODE	VARCHAR2(80)
METHOD	VARCHAR2(1)
	CHAR(1)
PRODUCT_GROUP	NUMBER(4,0)
CURRENCY_CODE	VARCHAR2(10)
AGENT_MANAGER_ID	NUMBER(38,0)
SKU	VARCHAR2(40)
UNITS	NUMBER(38,0)
AMT	NUMBER(38,14)
UNITS	NUMBER(38,0)
AMT	NUMBER(38,14)
DISC_SAMEDAYCANC_AMT	NUMBER(38,14)
DISC_AMT	NUMBER(38,14)
DISC_ADJUSTED_AMT	NUMBER(38,14)
DISC_SAMEDAYCANC_AMT	NUMBER(38,14)

```

SELECT
FROM D_MP_ASINS_ESSENTIALS dma
JOIN D_DAILY_ORDERS ddo
  ON dma.REGION_ID = ddo.REGION_ID
  AND dma.MARKETPLACE_ID = ddo.MARKETPLACE_ID
  AND dma.ASIN = ddo.ASIN
WHERE dma.REGION_ID =
AND dma.MARKETPLACE_ID =
;

```



Joining Two or More Tables

D_MP_ASINS_ESSENTIALS	
REGION_ID [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [PK:2]	NUMBER(38,0)
ASIN [PK:1]	CHAR(10)
BASE_CURRENCY_CODE	VARCHAR2(15)
CATEGORY_CODE	VARCHAR2(96)
GL_PRODUCT_GROUP	NUMBER(10,0)
GL_PRODUCT_GROUP_DESC	VARCHAR2(100)
ITEM_NAME	
MSRP	
MSRP_TAX	
PRODUCT_A	
PRODUCT_S	
PRODUCT_T	
PUBLICATION	
STREET_DA	
SUBCATEGORY	
DW_CREAT	
DW_LAST_U	
IS_DELETED	
VERSION	

D_DAILY_ORDERS	
REGION_ID [Part:1]	NUMBER(2,0)
LEGAL_ENTITY_ID	NUMBER(38,0)
MARKETPLACE_ID	NUMBER(38,0)
ACTIVITY_DAY [Part:2]	DATE
ASIN	CHAR(10)
MERCHANT_CUSTOMER_ID	NUMBER(38,0)
EXCHANGE_ITEM_CONDITION_ID	NUMBER(2,0)
PE	VARCHAR2(10)
REASON_CODE	VARCHAR2(80)
METHOD	VARCHAR2(1)
	CHAR(1)
PRODUCT_GROUP	NUMBER(4,0)
CURRENCY_CODE	VARCHAR2(10)
AGENT_MANAGER_ID	NUMBER(38,0)
SKU	VARCHAR2(40)
UNITS	NUMBER(38,0)
AMT	NUMBER(38,14)
UNITS	NUMBER(38,0)
AMT	NUMBER(38,14)
DISC_SAMEDAYCANC_AMT	NUMBER(38,14)
DISC_AMT	NUMBER(38,14)
DISC_ADJUSTED_AMT	NUMBER(38,14)
DISC_SAMEDAYCANC_AMT	NUMBER(38,14)

```
SELECT
FROM D_MP_ASINS_ESSENTIALS dma
JOIN D_DAILY_ORDERS ddo
  ON dma.REGION_ID = ddo.REGION_ID
  AND dma.MARKETPLACE_ID = ddo.MARKETPLACE_ID
  AND dma.ASIN = ddo.ASIN
WHERE dma.REGION_ID = 1
AND dma.MARKETPLACE_ID = 1
;
```


Joining Two or More Tables

D_MP_ASINS_ESSENTIALS	
REGION_ID [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [PK:2]	NUMBER(38,0)
ASIN [PK:1]	CHAR(10)
BASE_CURRENCY_CODE	VARCHAR2(15)
CATEGORY_CODE	VARCHAR2(96)
GL_PRODUCT_GROUP	NUMBER(10,0)
GL_PRODUCT_GROUP_DESC	VARCHAR2(100)

D_DAILY_ORDERS	
REGION_ID [Part:1]	NUMBER(2,0)
LEGAL_ENTITY_ID	NUMBER(38,0)
MARKETPLACE_ID	NUMBER(38,0)
ACTIVITY_DAY [Part:2]	DATE
ASIN	CHAR(10)
MERCHANT_CUSTOMER_ID	NUMBER(38,0)
EXCHANGE_ITEM_CONDITION_ID	NUMBER(2,0)
PE	VARCHAR2(10)
REASON_CODE	VARCHAR2(80)
METHOD	VARCHAR2(1)
	CHAR(1)
PRODUCT_GROUP	NUMBER(4,0)
CURRENCY_CODE	VARCHAR2(10)
AGENT_MANAGER_ID	NUMBER(38,0)
SKU	VARCHAR2(40)
UNITS	NUMBER(38,0)
AMT	NUMBER(38,14)
UNITS	NUMBER(38,0)
AMT	NUMBER(38,14)
DISC_SAMEDAYCANC_AMT	NUMBER(38,14)
DISC_AMT	NUMBER(38,14)
DISC_ADJUSTED_AMT	NUMBER(38,14)
DISC_SAMEDAYCANC_AMT	NUMBER(38,14)

```

SELECT
FROM D_MP_ASINS_ESSENTIALS dma
JOIN D_DAILY_ORDERS ddo
  ON dma.REGION_ID = ddo.REGION_ID
  AND dma.MARKETPLACE_ID = ddo.MARKETPLACE_ID
  AND dma.ASIN = ddo.ASIN
WHERE dma.REGION_ID = 1
  AND dma.MARKETPLACE_ID = 1
  AND ddo.REGION_ID =
  AND ddo.ACTIVITY_DAY =
;

```



Joining Two or More Tables

D_MP_ASINS_ESSENTIALS	
REGION_ID [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [PK:2]	NUMBER(38,0)
ASIN [PK:1]	CHAR(10)
BASE_CURRENCY_CODE	VARCHAR2(15)
CATEGORY_CODE	VARCHAR2(96)
GL_PRODUCT_GROUP	NUMBER(10,0)
GL_PRODUCT_GROUP_DESC	VARCHAR2(100)

D_DAILY_ORDERS	
REGION_ID [Part:1]	NUMBER(2,0)
LEGAL_ENTITY_ID	NUMBER(38,0)
MARKETPLACE_ID	NUMBER(38,0)
ACTIVITY_DAY [Part:2]	DATE
ASIN	CHAR(10)
MERCHANT_CUSTOMER_ID	NUMBER(38,0)
EXCHANGE_ITEM_CONDITION_ID	NUMBER(2,0)
PE	VARCHAR2(10)
REASON_CODE	VARCHAR2(80)
METHOD	VARCHAR2(1)
	CHAR(1)
PRODUCT_GROUP	NUMBER(4,0)
CURRENCY_CODE	VARCHAR2(10)
AGENT_MANAGER_ID	NUMBER(38,0)
SKU	VARCHAR2(40)
UNITS	NUMBER(38,0)
AMT	NUMBER(38,14)
UNITS	NUMBER(38,0)
AMT	NUMBER(38,14)
DISC_SAMEDAYCANC_AMT	NUMBER(38,14)
DISC_AMT	NUMBER(38,14)
DISC_ADJUSTED_AMT	NUMBER(38,14)
DISC_SAMEDAYCANC_AMT	NUMBER(38,14)

```

SELECT
FROM D_MP_ASINS_ESSENTIALS dma
JOIN D_DAILY_ORDERS ddo
  ON dma.REGION_ID = ddo.REGION_ID
  AND dma.MARKETPLACE_ID = ddo.MARKETPLACE_ID
  AND dma.ASIN = ddo.ASIN
WHERE dma.REGION_ID = 1
  AND dma.MARKETPLACE_ID = 1
  AND ddo.REGION_ID = 1
  AND ddo.ACTIVITY_DAY = TO_DATE('20110914','YYYYMMDD')
;

```



Joining Two or More Tables

D_MP_ASINS_ESSENTIALS		D_DAILY_ORDERS	
REGION_ID [PK:3]	NUMBER(2,0)	REGION_ID [Part:1]	NUMBER(2,0)
MARKETPLACE_ID [PK:2]	NUMBER(38,0)	LEGAL_ENTITY_ID	NUMBER(38,0)
ASIN [PK:1]	CHAR(10)	MARKETPLACE_ID	NUMBER(38,0)
BASE_CURRENCY_CODE	VARCHAR2(15)	ACTIVITY_DAY [Part:2]	DATE
CATEGORY_CODE	VARCHAR2(96)	ASIN	CHAR(10)
GL_PRODUCT_GROUP	NUMBER(10,0)	MERCHANT_CUSTOMER_ID	NUMBER(38,0)
GL_PRODUCT_GROUP_DESC	VARCHAR2(100)	EXCHANGE_ITEM_CONDITION_ID	NUMBER(2,0)
ITEM_NAME		PE	VARCHAR2(10)
MSRP		REASON_CODE	VARCHAR2(80)
MSRP_TAX		METHOD	VARCHAR2(1)
PRODUCT_A			CHAR(1)
PRODUCT_S		PRODUCT_GROUP	NUMBER(4,0)
PRODUCT_T		CURRENCY_CODE	VARCHAR2(10)
PUBLICATION		AGENT_MANAGER_ID	NUMBER(38,0)
STREET_DA		_SKU	VARCHAR2(40)
SUBCATEGORY		_UNITS	NUMBER(38,0)
DW_CREATE		_AMT	NUMBER(38,14)
DW_LAST_U		_UNITS	NUMBER(38,0)
IS_DELETED		_AMT	NUMBER(38,14)
VERSION			
		_DISC_SAMEDAYCANC_AMT	NUMBER(38,14)
		_DISC_AMT	NUMBER(38,14)
		_DISC_ADJUSTED_AMT	NUMBER(38,14)
		_DISC_SAMEDAYCANC_AMT	NUMBER(38,14)


```

SELECT
FROM D_MP_ASINS_ESSENTIALS dma
JOIN D_DAILY_ORDERS ddo
  ON dma.REGION_ID = ddo.REGION_ID
  AND dma.MARKETPLACE_ID = ddo.MARKETPLACE_ID
  AND dma.ASIN = ddo.ASIN
WHERE dma.REGION_ID = 1
  AND dma.MARKETPLACE_ID = 1
  AND ddo.REGION_ID = 1
  AND ddo.ACTIVITY_DAY = TO_DATE('20110914','YYYYMMDD')
  AND ddo.MARKETPLACE_ID = 1
;

```



Joining Two or More Tables

D_MP_ASINS_ESSENTIALS	
REGION_ID [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [PK:2]	NUMBER(38,0)
ASIN [PK:1]	CHAR(10)
BASE_CURRENCY_CODE	VARCHAR2(15)
CATEGORY_CODE	VARCHAR2(96)
GL_PRODUCT_GROUP	NUMBER(10,0)
GL_PRODUCT_GROUP_DESC	VARCHAR2(100)

D_DAILY_ORDERS	
REGION_ID [Part:1]	NUMBER(2,0)
LEGAL_ENTITY_ID	NUMBER(38,0)
MARKETPLACE_ID	NUMBER(38,0)
ACTIVITY_DAY [Part:2]	DATE
ASIN	CHAR(10)
MERCHANT_CUSTOMER_ID	NUMBER(38,0)
EXCHANGE_ITEM_CONDITION_ID	NUMBER(2,0)
PE	VARCHAR2(10)
REASON_CODE	VARCHAR2(80)
METHOD	VARCHAR2(1)
	CHAR(1)
PRODUCT_GROUP	NUMBER(4,0)
CURRENCY_CODE	VARCHAR2(10)
AGENT_MANAGER_ID	NUMBER(38,0)
SKU	VARCHAR2(40)
UNITS	NUMBER(38,0)
AMT	NUMBER(38,14)
UNITS	NUMBER(38,0)
AMT	NUMBER(38,14)
DISC_SAMEDAYCANC_AMT	NUMBER(38,14)
DISC_AMT	NUMBER(38,14)
DISC_ADJUSTED_AMT	NUMBER(38,14)
DISC_SAMEDAYCANC_AMT	NUMBER(38,14)

```

SELECT
FROM D_MP_ASINS_ESSENTIALS dma
JOIN D_DAILY_ORDERS ddo
  ON dma.REGION_ID = ddo.REGION_ID
  AND dma.MARKETPLACE_ID = ddo.MARKETPLACE_ID
  AND dma.ASIN = ddo.ASIN
WHERE dma.REGION_ID = 1
  AND dma.MARKETPLACE_ID = 1
  AND ddo.REGION_ID = 1
  AND ddo.ACTIVITY_DAY = TO_DATE('20110914','YYYYMMDD')
  AND ddo.MARKETPLACE_ID = 1
  AND dma.GL_PRODUCT_GROUP = 14
;

```



Joining Two or More Tables

D_MP_ASINS_ESSENTIALS	
REGION_ID [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [PK:2]	NUMBER(38,0)
ASIN [PK:1]	CHAR(10)
BASE_CURRENCY_CODE	VARCHAR2(15)
CATEGORY_CODE	VARCHAR2(96)
GL_PRODUCT_GROUP	NUMBER(10,0)
GL_PRODUCT_GROUP_DESC	VARCHAR2(100)

D_DAILY_ORDERS	
REGION_ID [Part:1]	NUMBER(2,0)
LEGAL_ENTITY_ID	NUMBER(38,0)
MARKETPLACE_ID	NUMBER(38,0)
ACTIVITY_DAY [Part:2]	DATE
ASIN	CHAR(10)
MERCHANT_CUSTOMER_ID	NUMBER(38,0)
EXCHANGE_ITEM_CONDITION_ID	NUMBER(2,0)
PE	VARCHAR2(10)
REASON_CODE	VARCHAR2(80)
METHOD	VARCHAR2(1)
	CHAR(1)
PRODUCT_GROUP	NUMBER(4,0)
CURRENCY_CODE	VARCHAR2(10)
AGENT_MANAGER_ID	NUMBER(38,0)
SKU	VARCHAR2(40)
UNITS	NUMBER(38,0)
AMT	NUMBER(38,14)
UNITS	NUMBER(38,0)
AMT	NUMBER(38,14)
DISC_SAMEDAYCANC_AMT	NUMBER(38,14)
DISC_AMT	NUMBER(38,14)
DISC_ADJUSTED_AMT	NUMBER(38,14)
DISC_SAMEDAYCANC_AMT	NUMBER(38,14)

```

SELECT
  ddo.ASIN
  , dma.ITEM_NAME
FROM D_MP_ASINS_ESSENTIALS dma
JOIN D_DAILY_ORDERS ddo
  ON dma.REGION_ID = ddo.REGION_ID
  AND dma.MARKETPLACE_ID = ddo.MARKETPLACE_ID
  AND dma.ASIN = ddo.ASIN
WHERE dma.REGION_ID = 1
  AND dma.MARKETPLACE_ID = 1
  AND ddo.REGION_ID = 1
  AND ddo.ACTIVITY_DAY = TO_DATE('20110914','YYYYMMDD')
  AND ddo.MARKETPLACE_ID = 1
  AND dma.GL_PRODUCT_GROUP = 14
;

```



Joining Two or More Tables

D_MP_ASINS_ESSENTIALS	
REGION_ID [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [PK:2]	NUMBER(38,0)
ASIN [PK:1]	CHAR(10)
BASE_CURRENCY_CODE	VARCHAR2(15)
CATEGORY_CODE	VARCHAR2(96)
GL_PRODUCT_GROUP	NUMBER(10,0)
GL_PRODUCT_GROUP_DESC	VARCHAR2(100)

D_DAILY_ORDERS	
REGION_ID [Part:1]	NUMBER(2,0)
LEGAL_ENTITY_ID	NUMBER(38,0)
MARKETPLACE_ID	NUMBER(38,0)
ACTIVITY_DAY [Part:2]	DATE
ASIN	CHAR(10)
MERCHANT_CUSTOMER_ID	NUMBER(38,0)
EXCHANGE_ITEM_CONDITION_ID	NUMBER(2,0)
PE	VARCHAR2(10)
REASON_CODE	VARCHAR2(80)
METHOD	VARCHAR2(1)
	CHAR(1)
PRODUCT_GROUP	NUMBER(4,0)
CURRENCY_CODE	VARCHAR2(10)
AGENT_MANAGER_ID	NUMBER(38,0)
SKU	VARCHAR2(40)
UNITS	NUMBER(38,0)
AMT	NUMBER(38,14)
UNITS	NUMBER(38,0)
AMT	NUMBER(38,14)
DISC_SAMEDAYCANC_AMT	NUMBER(38,14)
DISC_AMT	NUMBER(38,14)
DISC_ADJUSTED_AMT	NUMBER(38,14)
DISC_SAMEDAYCANC_AMT	NUMBER(38,14)

```

SELECT
  ddo.ASIN
, dma.ITEM_NAME
, SUM(ddo.ORDERED_UNITS)
FROM D_MP_ASINS_ESSENTIALS dma
JOIN D_DAILY_ORDERS ddo
  ON dma.REGION_ID = ddo.REGION_ID
  AND dma.MARKETPLACE_ID = ddo.MARKETPLACE_ID
  AND dma.ASIN = ddo.ASIN
WHERE dma.REGION_ID = 1
  AND dma.MARKETPLACE_ID = 1
  AND ddo.REGION_ID = 1
  AND ddo.ACTIVITY_DAY = TO_DATE('20110914','YYYYMMDD')
  AND ddo.MARKETPLACE_ID = 1
  AND dma.GL_PRODUCT_GROUP = 14
;

```



Joining Two or More Tables

D_MP_ASINS_ESSENTIALS	
REGION_ID [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [PK:2]	NUMBER(38,0)
ASIN [PK:1]	CHAR(10)
BASE_CURRENCY_CODE	VARCHAR2(15)
CATEGORY_CODE	VARCHAR2(96)
GL_PRODUCT_GROUP	NUMBER(10,0)
GL_PRODUCT_GROUP_DESC	VARCHAR2(100)

D_DAILY_ORDERS	
REGION_ID [Part:1]	NUMBER(2,0)
LEGAL_ENTITY_ID	NUMBER(38,0)
MARKETPLACE_ID	NUMBER(38,0)
ACTIVITY_DAY [Part:2]	DATE
ASIN	CHAR(10)
MERCHANT_CUSTOMER_ID	NUMBER(38,0)
EXCHANGE_ITEM_CONDITION_ID	NUMBER(2,0)

```

SELECT
  ddo.ASIN
  , dma.ITEM_NAME
  , SUM(ddo.ORDERED_UNITS)
FROM D_MP_ASINS_ESSENTIALS dma
JOIN D_DAILY_ORDERS ddo
  ON dma.REGION_ID = ddo.REGION_ID
  AND dma.MARKETPLACE_ID = ddo.MARKETPLACE_ID
  AND dma.ASIN = ddo.ASIN
WHERE dma.REGION_ID = 1
  AND dma.MARKETPLACE_ID = 1
  AND ddo.REGION_ID = 1
  AND ddo.ACTIVITY_DAY = TO_DATE('20110914','YYYYMMDD')
  AND ddo.MARKETPLACE_ID = 1
  AND dma.GL_PRODUCT_GROUP = 14
GROUP BY
  ddo.ASIN
  , dma.ITEM_NAME
;

```

PE	VARCHAR2(10)
REASON_CODE	VARCHAR2(80)
METHOD	VARCHAR2(1)
	CHAR(1)
PRODUCT_GROUP	NUMBER(4,0)
CURRENCY_CODE	VARCHAR2(10)
AGENT_MANAGER_ID	NUMBER(38,0)
SKU	VARCHAR2(40)
UNITS	NUMBER(38,0)
AMT	NUMBER(38,14)
UNITS	NUMBER(38,0)
AMT	NUMBER(38,14)
DISC_SAMEDAYCANC_AMT	NUMBER(38,14)
DISC_AMT	NUMBER(38,14)
DISC_ADJUSTED_AMT	NUMBER(38,14)
DISC_SAMEDAYCANC_AMT	NUMBER(38,14)



Joining Two or More Tables

D_MP_ASINS_ESSENTIALS	
REGION_ID [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [PK:2]	NUMBER(38,0)
ASIN [PK:1]	CHAR(10)
BASE_CURRENCY_CODE	VARCHAR2(15)
CATEGORY_CODE	VARCHAR2(96)
GL_PRODUCT_GROUP	NUMBER(10,0)
GL_PRODUCT_GROUP_DESC	VARCHAR2(100)

D_DAILY_ORDERS	
REGION_ID [Part:1]	NUMBER(2,0)
LEGAL_ENTITY_ID	NUMBER(38,0)
MARKETPLACE_ID	NUMBER(38,0)
ACTIVITY_DAY [Part:2]	DATE
ASIN	CHAR(10)
MERCHANT_CUSTOMER_ID	NUMBER(38,0)
EXCHANGE_ITEM_CONDITION_ID	NUMBER(2,0)

```

SELECT
  ddo.ASIN
, dma.ITEM_NAME
, SUM(ddo.ORDERED_UNITS)
FROM D_MP_ASINS_ESSENTIALS dma
JOIN D_DAILY_ORDERS ddo
  ON dma.REGION_ID = ddo.REGION_ID
  AND dma.MARKETPLACE_ID = ddo.MARKETPLACE_ID
  AND dma.ASIN = ddo.ASIN
WHERE dma.REGION_ID = 1
  AND dma.MARKETPLACE_ID = 1
  AND ddo.REGION_ID = 1
  AND ddo.ACTIVITY_DAY = TO_DATE('20110914','YYYYMMDD')
  AND ddo.MARKETPLACE_ID = 1
  AND dma.GL_PRODUCT_GROUP = 14
GROUP BY
  ddo.ASIN
, dma.ITEM_NAME
HAVING SUM(ddo.ORDERED_UNITS) >= 1000
;

```

PE	VARCHAR2(10)
REASON_CODE	VARCHAR2(80)
METHOD	VARCHAR2(1)
	CHAR(1)
PRODUCT_GROUP	NUMBER(4,0)
CURRENCY_CODE	VARCHAR2(10)
AGENT_MANAGER_ID	NUMBER(38,0)
SKU	VARCHAR2(40)
UNITS	NUMBER(38,0)
AMT	NUMBER(38,14)
UNITS	NUMBER(38,0)
AMT	NUMBER(38,14)
DISC_SAMEDAYCANC_AMT	NUMBER(38,14)
DISC_AMT	NUMBER(38,14)
DISC_ADJUSTED_AMT	NUMBER(38,14)
DISC_SAMEDAYCANC_AMT	NUMBER(38,14)



Joining Two or More Tables

D_MP_ASINS_ESSENTIALS	
REGION_ID [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [PK:2]	NUMBER(38,0)
ASIN [PK:1]	CHAR(10)
BASE_CURRENCY_CODE	VARCHAR2(15)
CATEGORY_CODE	VARCHAR2(96)
GL_PRODUCT_GROUP	NUMBER(10,0)
GL_PRODUCT_GROUP_DESC	VARCHAR2(100)

D_DAILY_ORDERS	
REGION_ID [Part:1]	NUMBER(2,0)
LEGAL_ENTITY_ID	NUMBER(38,0)
MARKETPLACE_ID	NUMBER(38,0)
ACTIVITY_DAY [Part:2]	DATE
ASIN	CHAR(10)
MERCHANT_CUSTOMER_ID	NUMBER(38,0)
EXCHANGE_ITEM_CONDITION_ID	NUMBER(2,0)

```

SELECT
  ddo.ASIN
, dma.ITEM_NAME
, SUM(ddo.ORDERED_UNITS)
FROM D_MP_ASINS_ESSENTIALS dma
JOIN D_DAILY_ORDERS ddo
  ON dma.REGION_ID = ddo.REGION_ID
  AND dma.MARKETPLACE_ID = ddo.MARKETPLACE_ID
  AND dma.ASIN = ddo.ASIN
WHERE dma.REGION_ID = 1
  AND dma.MARKETPLACE_ID = 1
  AND ddo.REGION_ID = 1
  AND ddo.ACTIVITY_DAY = TO_DATE('20110914','YYYYMMDD')
  AND ddo.MARKETPLACE_ID = 1
  AND dma.GL_PRODUCT_GROUP = 14
GROUP BY
  ddo.ASIN
, dma.ITEM_NAME
HAVING SUM(ddo.ORDERED_UNITS) >= 1000
ORDER BY SUM(ddo.ORDERED_UNITS) DESC
;

```

PE	VARCHAR2(10)
REASON_CODE	VARCHAR2(80)
METHOD	VARCHAR2(1)
	CHAR(1)
PRODUCT_GROUP	NUMBER(4,0)
CURRENCY_CODE	VARCHAR2(10)
AGENT_MANAGER_ID	NUMBER(38,0)
SKU	VARCHAR2(40)
UNITS	NUMBER(38,0)
AMT	NUMBER(38,14)
UNITS	NUMBER(38,0)
AMT	NUMBER(38,14)
DISC_SAMEDAYCANC_AMT	NUMBER(38,14)
DISC_AMT	NUMBER(38,14)
DISC_ADJUSTED_AMT	NUMBER(38,14)
DISC_SAMEDAYCANC_AMT	NUMBER(38,14)



Joining Two or More Tables

ASIN	ITEM_NAME	SUM(DDO.ORDERED_UNITS)
1401324258	Jacqueline Kennedy: Historic Conversations on Life with John F. Kennedy	4715
0439023521	The Hunger Games	1229
0425245136	The Help (Movie Tie-In)	1216
159562015X	StrengthsFinder 2.0	1121
140020237X	StandOut: The Groundbreaking New Strengths Assessment from the Leader of the Strengths Revolution	1026
0874478529	The Official SAT Study Guide, 2nd edition	1023

```
SELECT
ddo.ASIN
, dma.ITEM_NAME
, SUM(ddo.ORDERED_UNITS)
FROM D_MP_ASINS_ESSENTIALS dma
JOIN D_DAILY_ORDERS ddo
  ON dma.REGION_ID = ddo.REGION_ID
  AND dma.MARKETPLACE_ID = ddo.MARKETPLACE_ID
  AND dma.ASIN = ddo.ASIN
WHERE dma.REGION_ID = 1
AND dma.MARKETPLACE_ID = 1
AND ddo.REGION_ID = 1
AND ddo.ACTIVITY_DAY = TO_DATE('20110914','YYYYMMDD')
AND ddo.MARKETPLACE_ID = 1
AND dma.GL_PRODUCT_GROUP = 14
GROUP BY
ddo.ASIN
, dma.ITEM_NAME
HAVING SUM(ddo.ORDERED_UNITS) >= 1000
ORDER BY SUM(ddo.ORDERED_UNITS) DESC
;
```



Joining Two or More Tables

D_MP_ASINS_ESSENTIALS	
REGION_ID [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [PK:2]	NUMBER(38,0)
ASIN [PK:1]	CHAR(10)
BASE_CURRENCY_CODE	VARCHAR2(15)
CATEGORY_CODE	VARCHAR2(96)
GL_PRODUCT_GROUP	NUMBER(10,0)
GL_PRODUCT_GROUP_DESC	VARCHAR2(100)
ITEM_NAME	VARCHAR2(400)
MSRP	NUMBER(18,4)
MSRP_TAX_AMOUNT	NUMBER(18,4)
PRODUCT_AVAILABLE_DAY	DATE
PRODUCT_SITE_LAUNCH_DAY	DATE
PRODUCT_TIER_ID	VARCHAR2(50)
PUBLICATION_DAY	DATE
STREET_DAY	DATE
SUBCATEGORY_CODE	VARCHAR2(96)
DW_CREATION_DATE	DATE
DW_LAST_UPDATED	DATE
IS_DELETED	CHAR(1)
VERSION	NUMBER(38,0)

D_MP_ASIN_BRAND_MANUFACTURER	
REGION_ID [Part:1] [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [Part:2] [PK:2]	NUMBER
ASIN [PK:1]	CHAR(10)
GL_PRODUCT_GROUP	NUMBER(10,0)
BRAND_CODE	CHAR(5)
BRAND_NAME	VARCHAR2(240)
MANUFACTURER_CODE	CHAR(5)
MANUFACTURER_NAME	VARCHAR2(240)
OWNING_VENDOR_CODE	CHAR(5)
OWNING_VENDOR_NAME	VARCHAR2(240)
SRC_BRAND_CODE	VARCHAR2(5)
SRC_PUBLISHER_CODE	VARCHAR2(50)
IS_DELETED	CHAR(1)
DW_CREATION_DATE	DATE
DW_LAST_UPDATED	DATE



Joining Two or More Tables

D_MP_ASINS_ESSENTIALS		D_MP_ASIN_BRAND_MANUFACTURER	
REGION_ID [PK:3]	NUMBER(2,0)	REGION_ID [Part:1] [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [PK:2]	NUMBER(38,0)	MARKETPLACE_ID [Part:2] [PK:2]	NUMBER
ASIN [PK:1]	CHAR(10)	ASIN [PK:1]	CHAR(10)
BASE_CURRENCY_CODE	VARCHAR2(15)	GL_PRODUCT_GROUP	NUMBER(10,0)
CATEGORY_CODE	VARCHAR2(96)	BRAND_CODE	CHAR(5)
GL_PRODUCT_GROUP	NUMBER(10,0)	BRAND_NAME	VARCHAR2(240)
GL_PRODUCT_			CHAR(5)
ITEM_NAME			VARCHAR2(240)
MSRP			CHAR(5)
MSRP_TAX_AM			VARCHAR2(240)
PRODUCT_AVA			VARCHAR2(5)
PRODUCT_SITE_LAUNCH_DATE			VARCHAR2(50)
PRODUCT_TIER_ID	VARCHAR2(50)	IS_DELETED	CHAR(1)
PUBLICATION_DAY	DATE	DW_CREATION_DATE	DATE
STREET_DAY	DATE	DW_LAST_UPDATED	DATE
SUBCATEGORY_CODE	VARCHAR2(96)		
DW_CREATION_DATE	DATE		
DW_LAST_UPDATED	DATE		
IS_DELETED	CHAR(1)		
VERSION	NUMBER(38,0)		

What are the Manufacturer Codes for ASINs 3406512941, 0602232503, 1401324258, and 0439023521?



Joining Two or More Tables

D_MP_ASINS_ESSENTIALS	
REGION_ID [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [PK:2]	NUMBER(38,0)
ASIN [PK:1]	CHAR(10)
BASE_CURRENCY_CODE	VARCHAR2(15)
CATEGORY_CODE	VARCHAR2(96)
GL_PRODUCT_GROUP	NUMBER(10,0)
GL_PRODUCT_GROUP_DESC	VARCHAR2(100)
ITEM_NAME	VARCHAR2(400)
MSRP	NUMBER(18,4)
MSRP_TAX_AMOUNT	NUMBER(18,4)
PRODUCT_AVAILABLE_DAY	DATE
PRODUCT_SITE_LAUNCH_DAY	DATE
PRODUCT_TIER_ID	VARCHAR2(50)
PUBLICATION_DAY	DATE
STREET_DAY	DATE
SUBCATEGORY	NUMBER(10,0)
DW_CREATED	DATE
DW_LAST_UPDATED	DATE
IS_DELETED	CHAR(1)
VERSION	NUMBER(10,0)

D_MP_ASIN_BRAND_MANUFACTURER	
REGION_ID [Part:1] [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [Part:2] [PK:2]	NUMBER
ASIN [PK:1]	CHAR(10)
GL_PRODUCT_GROUP	NUMBER(10,0)
BRAND_CODE	CHAR(5)
BRAND_NAME	VARCHAR2(240)
MANUFACTURER_CODE	CHAR(5)
MANUFACTURER_NAME	VARCHAR2(240)
OWNING_VENDOR_CODE	CHAR(5)
OWNING_VENDOR_NAME	VARCHAR2(240)
SRC_BRAND_CODE	VARCHAR2(5)
SRC_PUBLISHER_CODE	VARCHAR2(50)
IS_DELETED	CHAR(1)
DW_CREATION_DATE	DATE
DW_UPDATE_DATE	DATE

```
SELECT
FROM
WHERE
;
```



Joining Two or More Tables

D_MP_ASINS_ESSENTIALS	
REGION_ID [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [PK:2]	NUMBER(38,0)
ASIN [PK:1]	CHAR(10)
BASE_CURRENCY_CODE	VARCHAR2(15)
CATEGORY_CODE	VARCHAR2(96)
GL_PRODUCT_GROUP	NUMBER(10,0)
GL_PRODUCT_GROUP_DESC	VARCHAR2(100)
ITEM_NAME	VARCHAR2(400)
MSRP	NUMBER(18,4)
MSRP_TAX_AMOUNT	NUMBER(18,4)
PRODUCT_AVAILABLE_DAY	DATE
PRODUCT_SITE_LAUNCH_DAY	DATE
PRODUCT_TIER_ID	VARCHAR2(50)
PUBLICATION_DAY	DATE
STREET_DAY	DATE
SUBCATEGORY	NUMBER(10,0)
DW_CREATED	DATE
DW_LAST_UPDATED	DATE
IS_DELETED	CHAR(1)
VERSION	NUMBER(10,0)

D_MP_ASIN_BRAND_MANUFACTURER	
REGION_ID [Part:1] [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [Part:2] [PK:2]	NUMBER
ASIN [PK:1]	CHAR(10)
GL_PRODUCT_GROUP	NUMBER(10,0)
BRAND_CODE	CHAR(5)
BRAND_NAME	VARCHAR2(240)
MANUFACTURER_CODE	CHAR(5)
MANUFACTURER_NAME	VARCHAR2(240)
OWNING_VENDOR_CODE	CHAR(5)
OWNING_VENDOR_NAME	VARCHAR2(240)
SRC_BRAND_CODE	VARCHAR2(5)
SRC_PUBLISHER_CODE	VARCHAR2(50)
IS_DELETED	CHAR(1)
DW_CREATION_DATE	DATE
DW_UPDATE_DATE	DATE

```
SELECT  
FROM D_MP_ASINS_ESSENTIALS dma  
  
WHERE  
  
;
```



Joining Two or More Tables

D_MP_ASINS_ESSENTIALS	
REGION_ID [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [PK:2]	NUMBER(38,0)
ASIN [PK:1]	CHAR(10)
BASE_CURRENCY_CODE	VARCHAR2(15)
CATEGORY_CODE	VARCHAR2(96)
GL_PRODUCT_GROUP	NUMBER(10,0)
GL_PRODUCT_GROUP_DESC	VARCHAR2(100)
ITEM_NAME	VARCHAR2(400)
MSRP	NUMBER(18,4)
MSRP_TAX_AMOUNT	NUMBER(18,4)
PRODUCT_AVAILABLE_DAY	DATE
PRODUCT_SITE_LAUNCH_DAY	DATE
PRODUCT_TIER_ID	VARCHAR2(50)
PUBLICATION_DAY	DATE
STREET_DAY	DATE
SUBCATEGORY	NUMBER(10,0)
DW_CREATED	DATE
DW_LAST_UPDATED	DATE
IS_DELETED	CHAR(1)
VERSION	NUMBER(10,0)

D_MP_ASIN_BRAND_MANUFACTURER	
REGION_ID [Part:1] [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [Part:2] [PK:2]	NUMBER
ASIN [PK:1]	CHAR(10)
GL_PRODUCT_GROUP	NUMBER(10,0)
BRAND_CODE	CHAR(5)
BRAND_NAME	VARCHAR2(240)
MANUFACTURER_CODE	CHAR(5)
MANUFACTURER_NAME	VARCHAR2(240)
OWNING_VENDOR_CODE	CHAR(5)
OWNING_VENDOR_NAME	VARCHAR2(240)
SRC_BRAND_CODE	VARCHAR2(5)
SRC_PUBLISHER_CODE	VARCHAR2(50)
IS_DELETED	CHAR(1)
DW_CREATION_DATE	DATE
DW_UPDATE_DATE	DATE

```
SELECT
FROM D_MP_ASINS_ESSENTIALS dma
JOIN D_MP_ASIN_BRAND_MANUFACTURER dmam
WHERE
;
```



Joining Two or More Tables

D_MP_ASINS_ESSENTIALS	
REGION_ID [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [PK:2]	NUMBER(38,0)
ASIN [PK:1]	CHAR(10)
BASE_CURRENCY_CODE	VARCHAR2(15)
CATEGORY_CODE	VARCHAR2(96)
GL_PRODUCT_GROUP	NUMBER(10,0)
GL_PRODUCT_GROUP_DESC	VARCHAR2(100)
ITEM_NAME	VARCHAR2(400)
MSRP	NUMBER(18,4)
MSRP_TAX_AMOUNT	NUMBER(18,4)
PRODUCT_AVAILABLE_DAY	DATE
PRODUCT_SITE_LAUNCH_DAY	DATE
PRODUCT_TIER_ID	VARCHAR2(50)
PUBLICATION_DAY	DATE
STREET_DAY	DATE
SUBCATEGORY	VARCHAR2(100)
DW_CREATED	DATE
DW_LAST_UPDATED	DATE
IS_DELETED	CHAR(1)
VERSION	NUMBER(10,0)

D_MP_ASIN_BRAND_MANUFACTURER	
REGION_ID [Part:1] [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [Part:2] [PK:2]	NUMBER
ASIN [PK:1]	CHAR(10)
GL_PRODUCT_GROUP	NUMBER(10,0)
BRAND_CODE	CHAR(5)
BRAND_NAME	VARCHAR2(240)
MANUFACTURER_CODE	CHAR(5)
MANUFACTURER_NAME	VARCHAR2(240)
OWNING_VENDOR_CODE	CHAR(5)
OWNING_VENDOR_NAME	VARCHAR2(240)
SRC_BRAND_CODE	VARCHAR2(5)
SRC_PUBLISHER_CODE	VARCHAR2(50)
IS_DELETED	CHAR(1)
DW_CREATION_DATE	DATE
DW_UPDATE_DATE	DATE

```
SELECT
FROM D_MP_ASINS_ESSENTIALS dma
JOIN D_MP_ASIN_BRAND_MANUFACTURER dmam
  ON dma.ASIN = dmam.ASIN

WHERE

;
```



Joining Two or More Tables

D_MP_ASINS_ESSENTIALS		D_MP_ASIN_BRAND_MANUFACTURER	
REGION_ID [PK:3]	NUMBER(2,0)	REGION_ID [Part:1] [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [PK:2]	NUMBER(38,0)	MARKETPLACE_ID [Part:2] [PK:2]	NUMBER
ASIN [PK:1]	CHAR(10)	ASIN [PK:1]	CHAR(10)
BASE_CURRENCY_CODE	VARCHAR2(15)	GL_PRODUCT_GROUP	NUMBER(10,0)
CATEGORY_CODE	VARCHAR2(96)	BRAND_CODE	CHAR(5)
GL_PRODUCT_GROUP	NUMBER(10,0)	BRAND_NAME	VARCHAR2(240)
GL_PRODUCT_GROUP_DESC	VARCHAR2(100)	MANUFACTURER_CODE	CHAR(5)
ITEM_NAME	VARCHAR2(400)	MANUFACTURER_NAME	VARCHAR2(240)
MSRP	NUMBER(18,4)	OWNING_VENDOR_CODE	CHAR(5)
MSRP_TAX_AMOUNT	NUMBER(18,4)	OWNING_VENDOR_NAME	VARCHAR2(240)
PRODUCT_AVAILABLE_DAY	DATE	SRC_BRAND_CODE	VARCHAR2(5)
PRODUCT_SITE_LAUNCH_DAY	DATE	SRC_PUBLISHER_CODE	VARCHAR2(50)
PRODUCT_TIER_ID	VARCHAR2(50)	IS_DELETED	CHAR(1)
PUBLICATION_DAY	DATE	DW_CREATION_DATE	DATE
STREET_DAY	DATE	DW_UPDATED	DATE

SELECT	
FROM D_MP_ASINS_ESSENTIALS dma	
JOIN D_MP_ASIN_BRAND_MANUFACTURER dmam	
ON dma.ASIN = dmam.ASIN	
AND dma.REGION_ID = dmam.REGION_ID	
WHERE	
;	



Joining Two or More Tables

D_MP_ASINS_ESSENTIALS		D_MP_ASIN_BRAND_MANUFACTURER	
REGION_ID [PK:3]	NUMBER(2,0)	REGION_ID [Part:1] [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [PK:2]	NUMBER(38,0)	MARKETPLACE_ID [Part:2] [PK:2]	NUMBER
ASIN [PK:1]	CHAR(10)	ASIN [PK:1]	CHAR(10)
BASE_CURRENCY_CODE	VARCHAR2(15)	GL_PRODUCT_GROUP	NUMBER(10,0)
CATEGORY_CODE	VARCHAR2(96)	BRAND_CODE	CHAR(5)
GL_PRODUCT_GROUP	NUMBER(10,0)	BRAND_NAME	VARCHAR2(240)
GL_PRODUCT_GROUP_DESC	VARCHAR2(100)	MANUFACTURER_CODE	CHAR(5)
ITEM_NAME	VARCHAR2(400)	MANUFACTURER_NAME	VARCHAR2(240)
MSRP	NUMBER(18,4)	OWNING_VENDOR_CODE	CHAR(5)
MSRP_TAX_AMOUNT	NUMBER(18,4)	OWNING_VENDOR_NAME	VARCHAR2(240)
PRODUCT_AVAILABLE_DAY	DATE	SRC_BRAND_CODE	VARCHAR2(5)
PRODUCT_SITE_LAUNCH_DAY	DATE	SRC_PUBLISHER_CODE	VARCHAR2(50)
PRODUCT_TIER_ID	VARCHAR2(50)	IS_DELETED	CHAR(1)
PUBLICATION_DAY	DATE	DW_CREATION_DATE	DATE
STREET_DAY	DATE	DW_UPDATED	DATE
SUBCATEGORY	NUMBER(10,0)		
DW_CREATED	DATE		
DW_LAST_UPDATED	DATE		
IS_DELETED	CHAR(1)		
VERSION	NUMBER(10,0)		


```

SELECT
FROM D_MP_ASINS_ESSENTIALS dma
JOIN D_MP_ASIN_BRAND_MANUFACTURER dmam
  ON dma.ASIN = dmam.ASIN
  AND dma.REGION_ID = dmam.REGION_ID
  AND dma.MARKETPLACE_ID = dmam.MARKETPLACE_ID
WHERE
;

```



Joining Two or More Tables

D_MP_ASINS_ESSENTIALS		D_MP_ASIN_BRAND_MANUFACTURER	
REGION_ID [PK:3]	NUMBER(2,0)	REGION_ID [Part:1] [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [PK:2]	NUMBER(38,0)	MARKETPLACE_ID [Part:2] [PK:2]	NUMBER
ASIN [PK:1]	CHAR(10)	ASIN [PK:1]	CHAR(10)
BASE_CURRENCY_CODE	VARCHAR2(15)	GL_PRODUCT_GROUP	NUMBER(10,0)
CATEGORY_CODE	VARCHAR2(96)	BRAND_CODE	CHAR(5)
GL_PRODUCT_GROUP	NUMBER(10,0)	BRAND_NAME	VARCHAR2(240)
GL_PRODUCT_GROUP_DESC	VARCHAR2(100)	MANUFACTURER_CODE	CHAR(5)
ITEM_NAME	VARCHAR2(400)	MANUFACTURER_NAME	VARCHAR2(240)
MSRP	NUMBER(18,4)	OWNING_VENDOR_CODE	CHAR(5)
MSRP_TAX_AMOUNT	NUMBER(18,4)	OWNING_VENDOR_NAME	VARCHAR2(240)
PRODUCT_AVAILABLE_DAY	DATE	SRC_BRAND_CODE	VARCHAR2(5)
PRODUCT_SITE_LAUNCH_DAY	DATE	SRC_PUBLISHER_CODE	VARCHAR2(50)
PRODUCT_TIER_ID	VARCHAR2(50)	IS_DELETED	CHAR(1)
PUBLICATION_DAY	DATE	DW_CREATION_DATE	DATE
STREET_DAY	DATE	DW_UPDATED	DATE

SELECT	
FROM D_MP_ASINS_ESSENTIALS dma	
JOIN D_MP_ASIN_BRAND_MANUFACTURER dmam	
ON dma.ASIN = dmam.ASIN	
AND dma.REGION_ID = dmam.REGION_ID	
AND dma.MARKETPLACE_ID = dmam.MARKETPLACE_ID	
WHERE	
;	



Joining Two or More Tables

D_MP_ASINS_ESSENTIALS		D_MP_ASIN_BRAND_MANUFACTURER	
REGION_ID [PK:3]	NUMBER(2,0)	REGION_ID [Part:1] [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [PK:2]	NUMBER(38,0)	MARKETPLACE_ID [Part:2] [PK:2]	NUMBER
ASIN [PK:1]	CHAR(10)	ASIN [PK:1]	CHAR(10)
BASE_CURRENCY_CODE	VARCHAR2(15)	GL_PRODUCT_GROUP	NUMBER(10,0)
CATEGORY_CODE	VARCHAR2(96)	BRAND_CODE	CHAR(5)
GL_PRODUCT_GROUP	NUMBER(10,0)	BRAND_NAME	VARCHAR2(240)
GL_PRODUCT_GROUP_DESC	VARCHAR2(100)	MANUFACTURER_CODE	CHAR(5)
ITEM_NAME	VARCHAR2(400)	MANUFACTURER_NAME	VARCHAR2(240)
MSRP	NUMBER(18,4)	OWNING_VENDOR_CODE	CHAR(5)
MSRP_TAX_AMOUNT	NUMBER(18,4)	OWNING_VENDOR_NAME	VARCHAR2(240)
PRODUCT_AVAILABLE_DAY	DATE	SRC_BRAND_CODE	VARCHAR2(5)
PRODUCT_SITE_LAUNCH_DAY	DATE	SRC_PUBLISHER_CODE	VARCHAR2(50)
PRODUCT_TIER_ID	VARCHAR2(50)	IS_DELETED	CHAR(1)
PUBLICATION_DAY	DATE	DW_CREATION_DATE	DATE
STREET_DAY	DATE	DW_UPDATED	DATE

SELECT	
FROM D_MP_ASINS_ESSENTIALS dma	
JOIN D_MP_ASIN_BRAND_MANUFACTURER dmam	
ON dma.ASIN = dmam.ASIN	
AND dma.REGION_ID = dmam.REGION_ID	
AND dma.MARKETPLACE_ID = dmam.MARKETPLACE_ID	
WHERE dma.REGION_ID =	
AND dma.MARKETPLACE_ID =	
;	



Joining 2 or More Tables

D_MP_ASINS_ESSENTIALS		D_MP_ASIN_BRAND_MANUFACTURER	
REGION_ID [PK:3]	NUMBER(2,0)	REGION_ID [Part:1] [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [PK:2]	NUMBER(38,0)	MARKETPLACE_ID [Part:2] [PK:2]	NUMBER
ASIN [PK:1]	CHAR(10)	ASIN [PK:1]	CHAR(10)
BASE_CURRENCY_CODE	VARCHAR2(15)	GL_PRODUCT_GROUP	NUMBER(10,0)
CATEGORY_CODE	VARCHAR2(96)	BRAND_CODE	CHAR(5)
GL_PRODUCT_GROUP	NUMBER(10,0)	BRAND_NAME	VARCHAR2(240)
GL_PRODUCT_GROUP_DESC	VARCHAR2(100)	MANUFACTURER_CODE	CHAR(5)
ITEM_NAME	VARCHAR2(400)	MANUFACTURER_NAME	VARCHAR2(240)
MSRP	NUMBER(18,4)	OWNING_VENDOR_CODE	CHAR(5)
MSRP_TAX_AMOUNT	NUMBER(18,4)	OWNING_VENDOR_NAME	VARCHAR2(240)
PRODUCT_AVAILABLE_DAY	DATE	SRC_BRAND_CODE	VARCHAR2(5)
PRODUCT_SITE_LAUNCH_DAY	DATE	SRC_PUBLISHER_CODE	VARCHAR2(50)
PRODUCT_TIER_ID	VARCHAR2(50)	IS_DELETED	CHAR(1)
PUBLICATION_DAY	DATE	DW_CREATION_DATE	DATE
STREET_DAY	DATE	DW_UPDATED	DATE

SELECT	
FROM D_MP_ASINS_ESSENTIALS dma	
JOIN D_MP_ASIN_BRAND_MANUFACTURER dmam	
ON dma.ASIN = dmam.ASIN	
AND dma.REGION_ID = dmam.REGION_ID	
AND dma.MARKETPLACE_ID = dmam.MARKETPLACE_ID	
WHERE dma.REGION_ID = 1	
AND dma.MARKETPLACE_ID = 1	
;	



Joining 2 or More Tables

D_MP_ASINS_ESSENTIALS		D_MP_ASIN_BRAND_MANUFACTURER	
REGION_ID [PK:3]	NUMBER(2,0)	REGION_ID [Part:1] [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [PK:2]	NUMBER(38,0)	MARKETPLACE_ID [Part:2] [PK:2]	NUMBER
ASIN [PK:1]	CHAR(10)	ASIN [PK:1]	CHAR(10)
BASE_CURRENCY_CODE	VARCHAR2(15)	GL_PRODUCT_GROUP	NUMBER(10,0)
CATEGORY_CODE	VARCHAR2(96)	BRAND_CODE	CHAR(5)
GL_PRODUCT_GROUP	NUMBER(10,0)	BRAND_NAME	VARCHAR2(240)
GL_PRODUCT_GROUP_DESC	VARCHAR2(100)	MANUFACTURER_CODE	CHAR(5)
ITEM_NAME			VARCHAR2(240)
MSRP			CHAR(5)
MSRP_TAX_AMOUNT			VARCHAR2(240)
PRODUCT_AVAILABLE_DATE			VARCHAR2(5)
PRODUCT_SITE_LAUNCH_DATE			VARCHAR2(50)
PRODUCT_TIER_ID			CHAR(1)
PUBLICATION_DAY			DATE
STREET_DAY			DATE
SUBCATEGORY_CODE			
DW_CREATION_DATE			
DW_LAST_UPDATED			
IS_DELETED			
VERSION			


```

SELECT
dma.ASIN
, dmam.MANUFACTURER_CODE
FROM D_MP_ASINS_ESSENTIALS dma
JOIN D_MP_ASIN_BRAND_MANUFACTURER dmam
ON dma.ASIN = dmam.ASIN
AND dma.REGION_ID = dmam.REGION_ID
AND dma.MARKETPLACE_ID = dmam.MARKETPLACE_ID
WHERE dma.REGION_ID = 1
AND dma.MARKETPLACE_ID = 1
;
    
```



Joining Two or More Tables

D_MP_ASINS_ESSENTIALS		D_MP_ASIN_BRAND_MANUFACTURER	
REGION_ID [PK:3]	NUMBER(2,0)	REGION_ID [Part:1] [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [PK:2]	NUMBER(38,0)	MARKETPLACE_ID [Part:2] [PK:2]	NUMBER
ASIN [PK:1]	CHAR(10)	ASIN [PK:1]	CHAR(10)
BASE_CURRENCY_CODE	VARCHAR2(15)	GL_PRODUCT_GROUP	NUMBER(10,0)
CATEGORY_CODE	VARCHAR2(96)	BRAND_CODE	CHAR(5)
GL_PRODUCT_GROUP	NUMBER(10,0)	BRAND_NAME	VARCHAR2(240)
GL_PRODUCT_GROUP_DESC	VARCHAR2(100)	MANUFACTURER_CODE	CHAR(5)
ITEM_NAME	VARCHAR2(100)	MANUFACTURER_NAME	VARCHAR2(240)
MSRP		DOR_CODE	CHAR(5)
MSRP_TAX_AMO		DOR_NAME	VARCHAR2(240)
PRODUCT_AVAILA		DDE	VARCHAR2(5)
PRODUCT_SITE_L		R_CODE	VARCHAR2(50)
PRODUCT_TIER_I			CHAR(1)
PUBLICATION_DA		_DATE	DATE
STREET_DAY		ATED	DATE
SUBCATEGORY_C			
DW_CREATION_D			
DW_LAST_UPDAT			
IS_DELETED			
VERSION			

```

SELECT
  dma.ASIN
  , dmam.MANUFACTURER_CODE
FROM D_MP_ASINS_ESSENTIALS dma
JOIN D_MP_ASIN_BRAND_MANUFACTURER dmam
  ON dma.ASIN = dmam.ASIN
  AND dma.REGION_ID = dmam.REGION_ID
  AND dma.MARKETPLACE_ID = dmam.MARKETPLACE_ID
WHERE dma.REGION_ID = 1
  AND dma.MARKETPLACE_ID = 1
  AND dma.ASIN IN
    ('3406512941','0602232503','1401324258','0439023521')
;

```



Joining Two or More Tables

D_MP_ASINS_ESSENTIALS	
REGION_ID [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [PK:2]	NUMBER(38,0)
ASIN [PK:1]	CHAR(10)
BASE_CURRENCY_CODE	VARCHAR2(15)
CATEGORY_CODE	VARCHAR2(96)
GL_PRODUCT_GROUP	NUMBER(10,0)
GL_PRODUCT_GROUP_DESC	VARCHAR2(100)
ITEM_NAME	VARCHAR2(400)
MSRP	NUMBER(18,4)
MSRP_TAX_AMOUNT	NUMBER(18,4)
PRODUCT_AVAILABLE_DAY	DATE
PRODUCT_SITE_LAUNCH_DAY	DATE

D_MP_ASIN_BRAND_MANUFACTURER	
REGION_ID [Part:1] [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [Part:2] [PK:2]	NUMBER
ASIN [PK:1]	CHAR(10)
GL_PRODUCT_GROUP	NUMBER(10,0)
BRAND_CODE	CHAR(5)
BRAND_NAME	VARCHAR2(240)
MANUFACTURER_CODE	CHAR(5)
MANUFACTURER_NAME	VARCHAR2(240)
OWNING_VENDOR_CODE	CHAR(5)
OWNING_VENDOR_NAME	VARCHAR2(240)
SRC_BRAND_CODE	VARCHAR2(5)
SRC_PUBLISHER_CODE	VARCHAR2(50)
ED	CHAR(1)
ATION_DATE	DATE
UPDATED	DATE

```
SELECT
dma.ASIN
, dmam.MANUFACTURER_CODE
FROM D_MP_ASINS_ESSENTIALS dma
JOIN D_MP_ASIN_BRAND_MANUFACTURER dmam
  ON dma.ASIN = dmam.ASIN
  AND dma.REGION_ID = dmam.REGION_ID
  AND dma.MARKETPLACE_ID = dmam.MARKETPLACE_ID
WHERE dma.REGION_ID = 1
AND dma.MARKETPLACE_ID = 1
AND dma.ASIN IN
('3406512941','0602232503','1401324258','0439023521')
;
```

ASIN	MANUFACTURER_CODE
1401324258	HYPNT
0439023521	SOPAP



Joining Two or More Tables

D_MP_ASINS_ESSENTIALS	
REGION_ID [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [PK:2]	NUMBER(38,0)
ASIN [PK:1]	CHAR(10)
BASE_CURRENCY_CODE	VARCHAR2(15)
CATEGORY_CODE	VARCHAR2(96)
GL_PRODUCT_GROUP	NUMBER(10,0)
GL_PRODUCT_GROUP_DESC	VARCHAR2(255)
ITEM_NAME	VARCHAR2(255)
MSRP	NUMBER(10,2)
MSRP_TAX_AMOUNT	NUMBER(18,4)
PRODUCT_AVAILABLE_DAY	DATE
PRODUCT_SITE_LAUNCH_DAY	DATE
PRODUCT_TIER_ID	VARCHAR2(50)

D_MP_ASIN_BRAND_MANUFACTURER	
REGION_ID [Part:1] [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [Part:2] [PK:2]	NUMBER
ASIN [PK:1]	CHAR(10)
GL_PRODUCT_GROUP	NUMBER(10,0)
BRAND_CODE	CHAR(5)
BRAND_NAME	VARCHAR2(240)
OWNING_VENDOR_NAME	VARCHAR2(240)
SRC_BRAND_CODE	VARCHAR2(5)
SRC_PUBLISHER_CODE	VARCHAR2(50)
IS_DELETED	CHAR(1)
CREATION_DATE	DATE
LAST_UPDATED	DATE

Why do we only get records back for two ASINs when our query was for four ASINs?

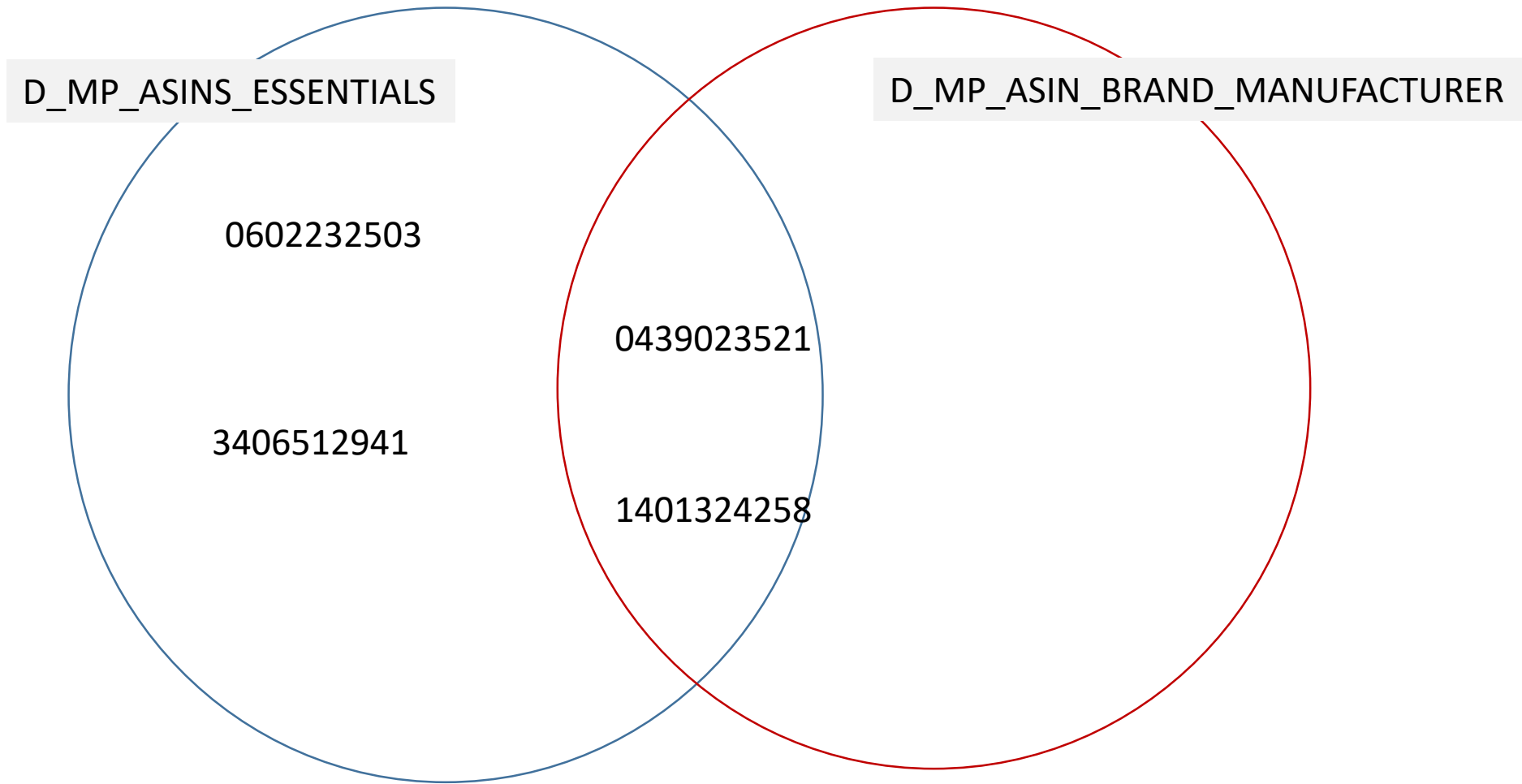
```
SELECT
dma.ASIN
, dmam.MANUFACTURER_CODE
FROM D_MP_ASINS_ESSENTIALS dma
JOIN D_MP_ASIN_BRAND_MANUFACTURER dmam
ON dma.ASIN = dmam.ASIN
AND dma.REGION_ID = dmam.REGION_ID
AND dma.MARKETPLACE_ID = dmam.MARKETPLACE_ID
WHERE dma.REGION_ID = 1
AND dma.MARKETPLACE_ID = 1
AND dma.ASIN IN
('3406512941','0602232503','1401324258','0439023521')
;
```

ASIN	MANUFACTURER_CODE
1401324258	HYPNT
0439023521	SOPAP

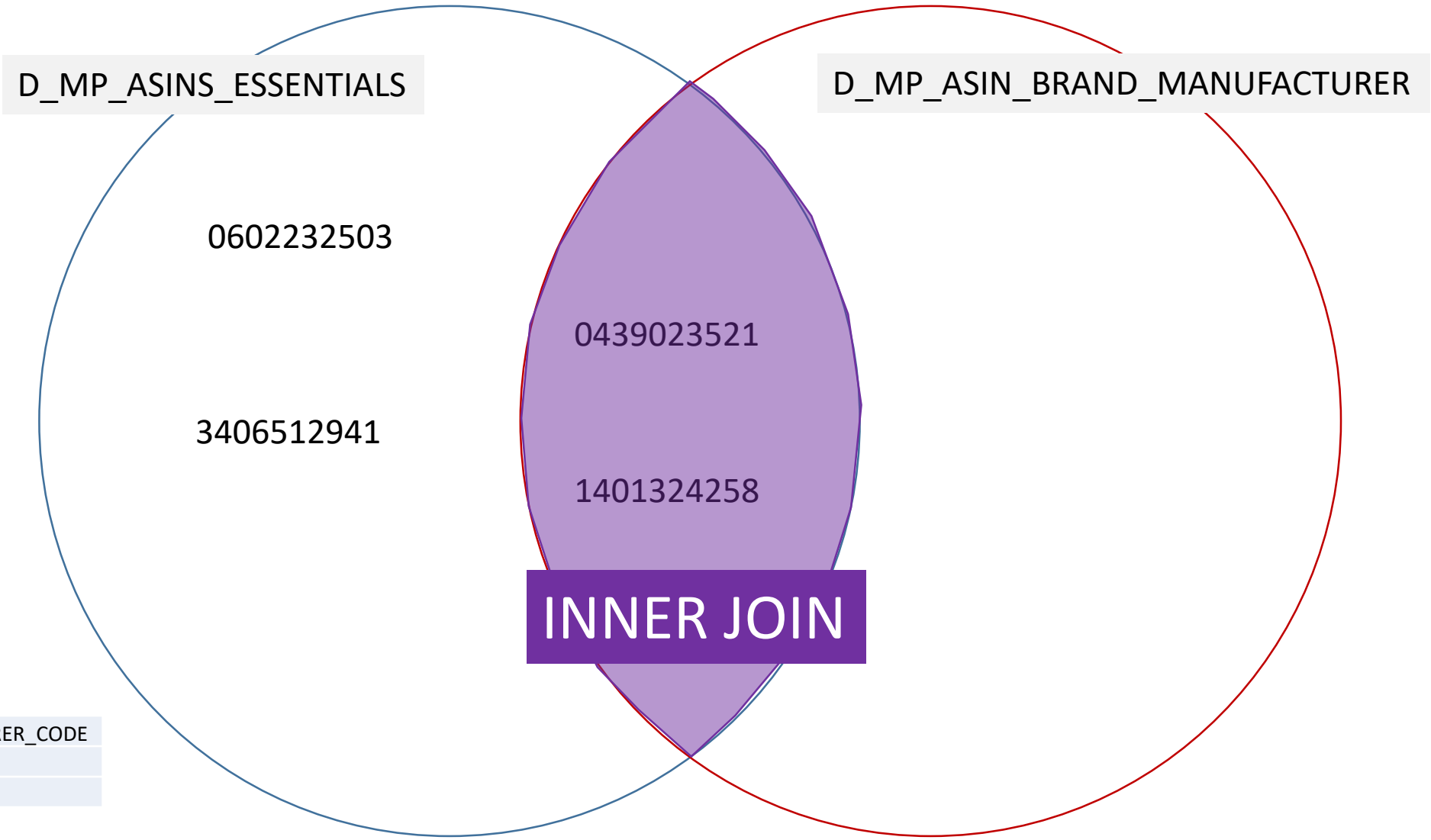


Inner Vs Outer Join

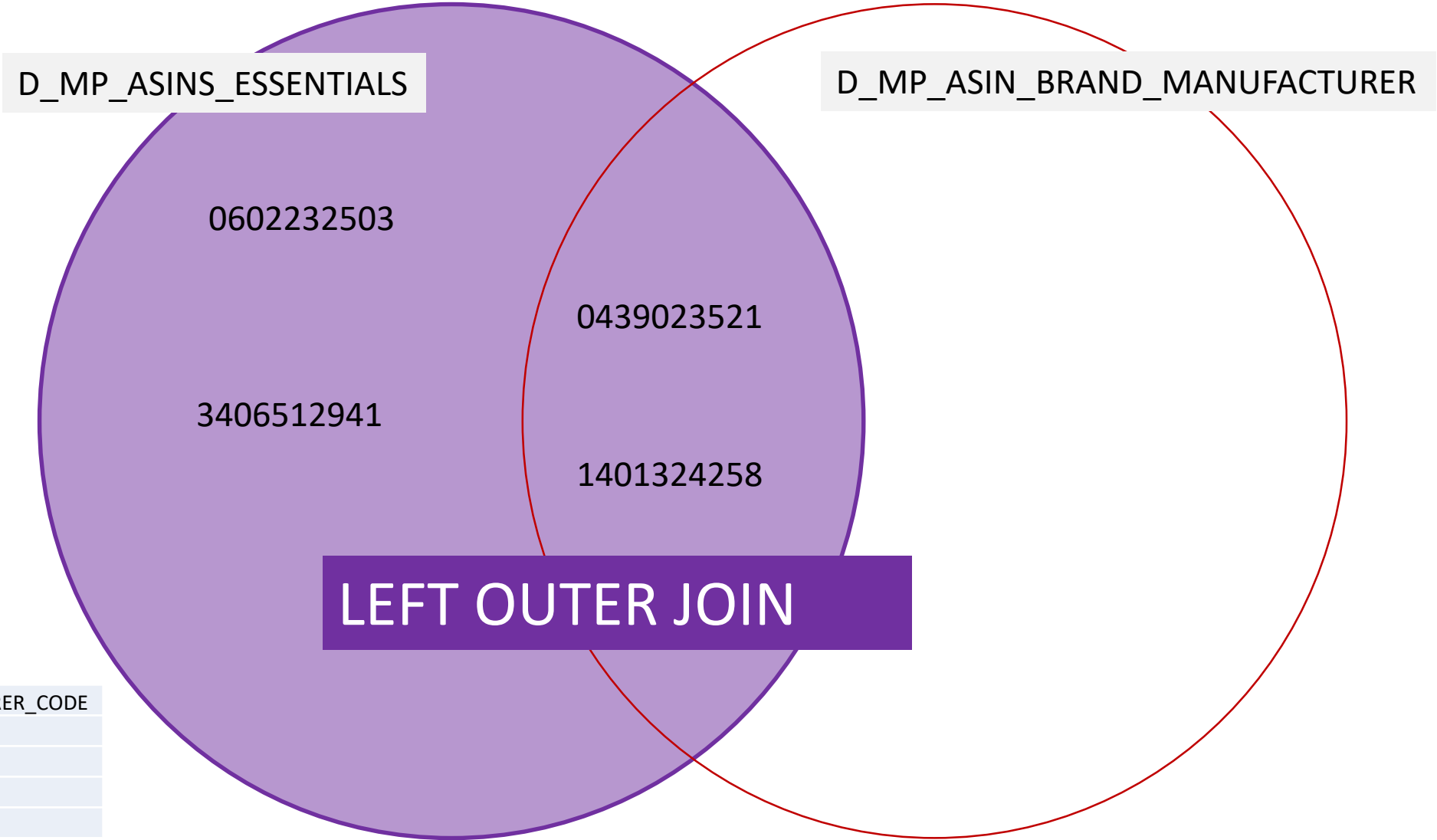
It's ALL about the JOIN type



Inner Join



Inner Vs Outer Join



WHERE Clause Conditions

With or Without OUTER Joins

WHERE Clause Conditions w/ OUTER Joins

D_MP_ASINS_ESSENTIALS		D_MP_ASIN_BRAND_MANUFACTURER	
REGION_ID [PK:3]	NUMBER(2,0)	REGION_ID [Part:1] [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [PK:2]	NUMBER(38,0)	MARKETPLACE_ID [Part:2] [PK:2]	NUMBER
ASIN [PK:1]	CHAR(10)	ASIN [PK:1]	CHAR(10)
BASE_CURRENCY_CODE	VARCHAR2(15)	GL_PRODUCT_GROUP	NUMBER(10,0)
CATEGORY_CODE	VARCHAR2(96)	BRAND_CODE	CHAR(5)
GL_PRODUCT_GROUP	NUMBER(10,0)	BRAND_NAME	VARCHAR2(240)
GL_PRODUCT_GROUP_DESC	VARCHAR2(100)	MANUFACTURER_CODE	CHAR(5)
ITEM_NAME	VARCHAR2(400)	MANUFACTURER_NAME	VARCHAR2(240)
MSRP	NUMBER(18,4)	OWNING_VENDOR_CODE	CHAR(5)
MSRP_TAX_AMOUNT	NUMBER(18,4)	OWNING_VENDOR_NAME	VARCHAR2(240)
PRODUCT_AVAILABLE_DAY	DATE	SRC_BRAND_CODE	VARCHAR2(5)
PRODUCT_SITE_LAUNCH_DAY	DATE	SRC_PUBLISHER_CODE	VARCHAR2(50)
PRODUCT_TIER_ID			CHAR(1)
PUBLICATION_DAY		ATE	DATE
STREET_DAY		ED	DATE
SUBCATEGORY_CODE			
DW_CREATION_DATE			
DW_LAST_UPDATED			
IS_DELETED			
VERSION			

SELECT dma.ASIN , dmam.MANUFACTURER_CODE FROM D_MP_ASINS_ESSENTIALS dma LEFT JOIN D_MP_ASIN_BRAND_MANUFACTURER dmam ON dma.ASIN = dmam.ASIN AND dma.REGION_ID = dmam.REGION_ID AND dma.MARKETPLACE_ID = dmam.MARKETPLACE_ID WHERE dma.REGION_ID = 1 AND dma.MARKETPLACE_ID = 1 AND dma.ASIN IN ('3406512941','0602232503','1401324258','0439023521') ;	
---	--



WHERE Clause Conditions w/ OUTER Joins

D_MP_ASINS_ESSENTIALS	
REGION_ID [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [PK:2]	NUMBER(38,0)
ASIN [PK:1]	CHAR(10)
BASE_CURRENCY_CODE	VARCHAR2(15)
CATEGORY_CODE	VARCHAR2(96)
GL_PRODUCT_GROUP	NUMBER(10,0)
GL_PRODUCT_GROUP_DESC	VARCHAR2(100)
ITEM_NAME	VARCHAR2(400)
MSRP	NUMBER(18,4)
MSRP_TAX_AMT	NUMBER(18,4)
PRODUCT_AVAILABILITY	CHAR(1)
PRODUCT_SITE	CHAR(1)
PRODUCT_TIER	CHAR(1)
PUBLICATION_DATE	DATE
STREET_DAY	DATE
SUBCATEGORY_CODE	VARCHAR2(5)
DW_CREATION_DATE	DATE
DW_LAST_UPDATE	DATE
IS_DELETED	CHAR(1)
VERSION	CHAR(1)

```
SELECT
dma.ASIN
, dmam.MANUFACTURER_CODE
FROM D_MP_ASINS_ESSENTIALS dma
LEFT JOIN D_MP_ASIN_BRAND_MANUFACTURER dmam
ON dma.ASIN = dmam.ASIN
AND dma.REGION_ID = dmam.REGION_ID
AND dma.MARKETPLACE_ID = dmam.MARKETPLACE_ID
WHERE dma.REGION_ID = 1
AND dma.MARKETPLACE_ID = 1
AND dma.ASIN IN
('3406512941','0602232503','1401324258','0439023521')
;
```

D_MP_ASIN_BRAND_MANUFACTURER	
REGION_ID [Part:1] [PK:3]	NUMBER(2,0)
MARKETPLACE_ID [Part:2] [PK:2]	NUMBER
ASIN [PK:1]	CHAR(10)
GL_PRODUCT_GROUP	NUMBER(10,0)
BRAND_CODE	CHAR(5)
BRAND_NAME	VARCHAR2(240)
MANUFACTURER_CODE	CHAR(5)
MANUFACTURER_NAME	VARCHAR2(240)
OWNING_VENDOR_CODE	CHAR(5)
VENDOR_NAME	VARCHAR2(240)
CODE	VARCHAR2(5)
ER_CODE	VARCHAR2(50)
	CHAR(1)
N_DATE	DATE
DATED	DATE

ASIN	MANUFACTURER_CODE
0602232503	
3406512941	
0439023521	SOPAP
1401324258	HYPNT



One - to - Many Joins

➤ One-to-Many Joins

```
SELECT
doi.ORDER_ID
, doi.ISBN
, doi.QUANTITY_SUBMITTED
, doi.QUANTITY
, dsi.QUANTITY_UNPACKED
FROM D_DISTRIBUTOR_ORDER_ITEMS doi
JOIN D_DISTRIBUTOR_SHIPMENT_ITEMS dsi
ON doi.ORDER_ID = dsi.ORDER_ID
AND doi.ISBN = dsi.ISBN
WHERE doi.REGION_ID = 1
AND doi.ORDER_DAY = to_date('20090115','YYYYMMDD')
AND doi.ORDER_ID = 'L9549101'
AND dsi.REGION_ID = 1
AND dsi.RECEIVED_DAY = to_date('20090119','YYYYMMDD')
```

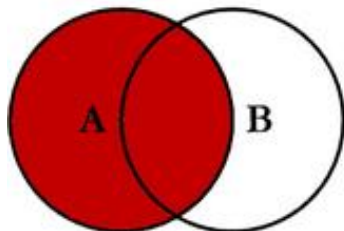
D_DISTRIBUTOR_ORDERS is at the grain of POs. That means it contains just one row of data for each Purchase Order. The related table D_DISTRIBUTOR_ORDER_ITEMS is at the grain of the PO and ASIN, so it has one row for each unique combination of PO and ASIN. The partially related table, D_DISTRIBUTOR_SHIPMENT_ITEMS contains all the records of PO items that have been received, and its grain is PO, ASIN and Shipment – because a single ASIN can be received to a single PO on multiple occasions. Knowing the grain of a table (usually by looking at some sample data) is important to understand how to properly join tables.

If we join D_DISTRIBUTOR_ORDER_ITEMS (with a grain of PO/ASIN) to D_DISTRIBUTOR_SHIPMENT_ITEMS (with a grain of PO/ASIN/Shipment) on the PO and ASIN columns (ORDER_ID and ISBN), the results look straightforward for PO L9549101.

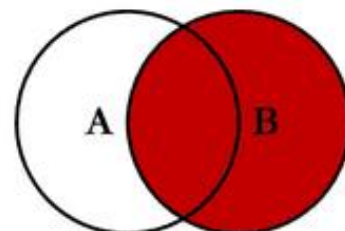
ORDER_ID	ISBN	QUANTITY_SUBMITTED	QUANTITY	QUANTITY_UNPACKED
L9549101	0316032220	40	40	40



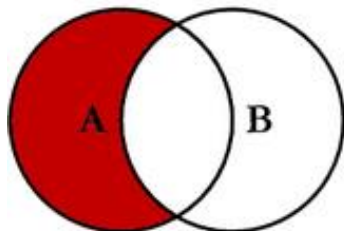
SQL JOINS



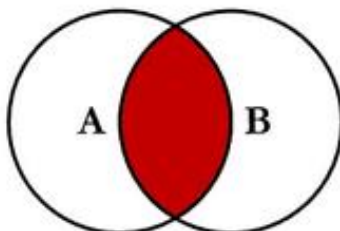
```
SELECT <select_list>
FROM TableA A
LEFT JOIN TableB B
ON A.Key = B.Key
```



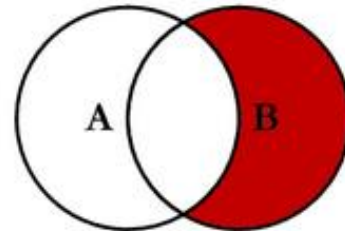
```
SELECT <select_list>
FROM TableA A
RIGHT JOIN TableB B
ON A.Key = B.Key
```



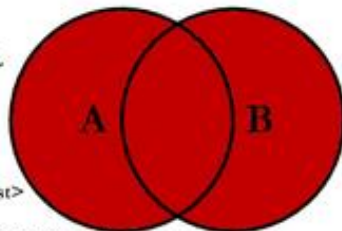
```
SELECT <select_list>
FROM TableA A
LEFT JOIN TableB B
ON A.Key = B.Key
WHERE B.Key IS NULL
```



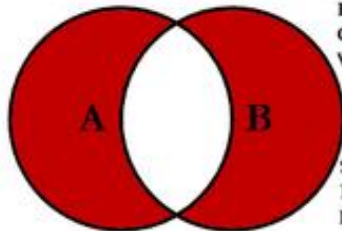
```
SELECT <select_list>
FROM TableA A
INNER JOIN TableB B
ON A.Key = B.Key
```



```
SELECT <select_list>
FROM TableA A
RIGHT JOIN TableB B
ON A.Key = B.Key
WHERE A.Key IS NULL
```



```
SELECT <select_list>
FROM TableA A
FULL OUTER JOIN TableB B
ON A.Key = B.Key
```



```
SELECT <select_list>
FROM TableA A
FULL OUTER JOIN TableB B
ON A.Key = B.Key
WHERE A.Key IS NULL
OR B.Key IS NULL
```

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➤ Lesson 4 - Assignment

1. Check out the tables D_MP_ASINS_ESSENTIALS and D_ASINS_MARKETPLACE_ATTRIBUTES in BI Metadata. What are the Partitioned columns in each table? What do you think the grain is of each table? Which table includes the BINDING column? Which table contains the ITEM_NAME column?
2. Write a single query, joining those two tables together, to determine the name and binding of ASIN 0385240880 in the Marketplace related to your business. Be sure to make use of Partitions in your WHERE clause. Run it through Explain Plan, then run it.
3. Edit the query to add the Manufacturer Code for the ASIN. Be sure to make use of Partitions. Run it through Explain Plan then run the query. (hint: Look at the first example query from week 3, in the ETL section).
4. Create a query to pull the Vendor Code, Vendor Name, Business Group ID and Business Group Name for Vendor ID 3453. Run it through Explain Plan then run the query. (hint: check out the first example query from week 4.)
5. Edit the query to pull a list of all Business IDs and Business Group Names for Canada that do not match to any Vendor Codes. Run it through Explain Plan then run the query. (hint: look for records where the VENDOR_ID IS NULL).
6. Create a query that emails you every day with ASIN level details (including PO, Vendor, ASIN, and Quantity) of all receipts to POs for vendor BATBO in the US. Let it run daily for a few days. Since D_DISTRIBUTOR_SHIPMENT_ITEMS is partitioned by RECEIVED_DAY (in addition to REGION_ID), but we haven't covered Dates yet, please include this in your WHERE clause: AND RECEIVED_DAY = TO_DATE('{RUN_DATE_YYYYMMDD}','YYYYMMDD'), in addition to a condition on the other partitioned column. Run it through Explain Plan before you schedule it.



END