Basic Database Operations - II

```
Session Objectives:

Use logical & comparison operators in the WHERE clause

Work with wildcards for pattern matching

Remove duplicates with DISTINCT

Sort data using ORDER BY

Limit results using LIMIT & OFFSET

Add comments for better documentation

Use column aliases for readability
```

```
-- Customers with more than 2 Children. '>'
SELECT
    FirstName,
    LastName,
    TotalChildren
FROM Customers
WHERE TotalChildren > 2;
```

```
mysql> SELECT
   -> FirstName,
   ->
           LastName
           TotalChildren
    -> FROM Customers
    -> WHERE TotalChildren > 2;
 FirstName
              LastName
                            TotalChildren
 EUGENE
               HUANG
                                          3
                                          3
 RUBEN
               TORRES
                                          5
 ELIZABETH
               JOHNSON
                                          3
 MARCO
               MEHTA
                                          4
 ROBIN
               VERHOFF
 CURTIS
               LU
 SYDNEY
               BENNETT
                                          3
 SHANNON
               WANG
                                          4
 THERESA
               RAMOS
 DENISE
               STONE
  JAIME
               NATH
```

```
-- Find the Customers whose TotalChildren is not equal to 5 .... <> !=

SELECT

FirstName,

LastName,

TotalChildren

FROM Customers

WHERE TotalChildren != 5;

-- 1913 row(s) returned
```

```
FirstName,
LastName,
TotalChildren
FROM Customers
WHERE TotalChildren <> 5;
```

```
FirstName,
            LastName,
TotalChildren
    -> FROM Customers
-> WHERE TotalChildren <> 5 LIMIT 10;
 FirstName | LastName | TotalChildren
 EUGENE
RUBEN
                HUANG
                                            330
                TORRES
 CHRISTY
                ZHU
  JULIO
                RUIZ
                                            0
 MARCO
                MEHTA
                                            3
                VERHOFF
 ROBIN
 SHANNON
                CARLSON
                                            0
  JACQUELYN
                SUAREZ
 CURTIS
                111
                                            4
10 rows in set (0.01 sec)
```

Find the Customers who are Bachelors & Professionals

```
SELECT
FirstName,
LastName,
EmailAddress,
EducationLevel,
Occupation
FROM Customers
WHERE EducationLevel = 'Bachelors'
AND Occupation = 'Professional';
-- 196 row(s) returned
```

```
mysql> SELECT
        FirstName,
    ->
           LastName,
           EmailAddress,
EducationLevel,
    ->
    -> Occupation
-> FROM Customers
       WHERE EducationLevel = 'Bachelors'
    -> AND Occupation = 'Professional' LIMIT 10;
 FirstName |
               LastName |
                           EmailAddress
                                                              EducationLevel
                                                                                 Occupation
                            jon24@learnsector.com
eugene10@learnsector.com
ruben35@learnsector.com
 JON
               YANG
                                                              Bachelors
                                                                                 Professional
 EUGENE
               HUANG
                                                              Bachelors
                                                                                 Professional
 RUBEN
               TORRES
                                                              Bachelors
                                                                                 Professional
                            christy12@learnsector.com
 CHRISTY
                                                              Bachelors
                                                                                 Professional
               ZHU
 ELIZABETH
               JOHNSON
                            elizabeth5@learnsector.com
                                                              Bachelors
                                                                                 Professional
  JULIO
               RUIZ
                            julio1@learnsector.com
                                                              Bachelors
                                                                                 Professional
 MARCO
               MEHTA
                            marco14@learnsector.com
                                                              Bachelors
                                                                                 Professional
 ROBIN
               VERHOFF
                            rob4@learnsector.com
                                                              Bachelors
                                                                                 Professional
 SHANNON
               CARLSON
                            shannon38@learnsector.com
                                                              Bachelors
                                                                                 Professional
 JACQUELYN
                            jacquelyn20@learnsector.com
               SUAREZ
                                                              Bachelors
                                                                                 Professional
10 rows in set (0.01 sec)
```

-- Find the Customers who are married but 0 TotalChildren

```
SELECT
FirstName,
LastName,
MaritalStatus,
TotalChildren
FROM Customers
WHERE MaritalStatus = 'M'
AND TotalChildren = 0;
```

```
mysql> SELECT
   -> FirstName,
   ->
          LastName,
          MaritalStatus,
          TotalChildren
   ->
   -> FROM Customers
   -> WHERE MaritalStatus = 'M'
   -> AND TotalChildren = 0
   -> LIMIT 10;
 FirstName | LastName | MaritalStatus | TotalChildren
             HILL
 WYATT
                                                     0
 ETHAN
             ZHANG
 SETH
             EDWARDS
                                                     0
 RUSSELL
             XIE
                                                     0
                         М
             RUSSELL
 JENNIFER
             MURPHY
                                                     0
 JESSE
 AMANDA
                                                     0
              CARTER
 MEGAN
              SANCHEZ
                                                     0
 NATHAN
             SIMMONS
                                                     0
 ANA
              PRICE
                                                     0
10 rows in set (0.01 sec)
```

Find the Customer either having 0 Children or a HomeOwner;

```
SELECT
FirstName,
LastName,
TotalChildren,
HomeOwner
FROM Customers
WHERE TotalChildren = 0 OR
HomeOwner = 'Y';
-- 1809 row(s) returned
```

```
mysql> SELECT
        FirstName,
    ->
           LastName
           TotalChildren,
    ->
           HomeOwner
    -> FROM Customers
    -> WHERE TotalChildren = 0 OR
    -> HomeOwner =
    -> LIMIT 10;
 FirstName | LastName
                         | TotalChildren
                                          | HomeOwner
               YANG
  JON
                                            Υ
  RUBEN
               TORRES
                                        3
                                        0
                                            N
  CHRISTY
               ZHU
  ELIZABETH
                                        5
               JOHNSON
  JULIO
                                        0
                                            Y
Y
Y
               RUIZ
                                        3
  MARCO
               MEHTA
  ROBIN
               VERHOFF
                                        4
               CARLSON
                                        0
                                            Ν
  SHANNON
  JACQUELYN
               SUAREZ
                                        0
                                        4
  CURTIS
               LU
10 rows in set (0.01 sec)
```

Find the ProductName with red/black Color having ProductPrice >= 1500

```
SELECT
ProductName,
ProductColor,
ProductPrice
FROM Products
WHERE (ProductColor = 'Red' OR ProductColor = 'Black')
AND ProductPrice >= 1500;
```

```
SELECT
ProductName,
ProductColor,
ProductPrice
FROM Products
WHERE ProductColor IN ('Red','Black')
AND ProductPrice >= 1500;
```

```
mysql> SELECT
            ProductName,
ProductColor,
      ->
      ->
                 ProductPrice
      -> FROM Products
      -> WHERE ProductColor IN ('Red', 'Black')
      -> AND ProductPrice >= 1500;
   ProductName
                                             ProductColor | ProductPrice
   Road-150 Red, 62
Road-150 Red, 44
                                                                               3578.27
3578.27
                                             Red
                                             Red
  Road-150 Red, 48
Road-150 Red, 52
                                                                               3578.27
3578.27
                                             Red
  Road-150 Red,
Road-150 Red, 56
Mountain-100 Black, 38
Mountain-100 Black, 42
                                             Red
                                                                               3578.27
                                             Red
                                             Black
                                                                               3374.99
                                             Black
                                                                               3374.99
   Mountain-100 Black, 44
                                             Black
                                                                               3374.99
   Mountain-100
                        Black, 48
                                             Black
                                                                               3374.99
                                                                           2049.0982
2049.0982
2049.0982
2443.35
   Mountain-200 Black, 38
Mountain-200 Black, 42
                                             Black
  Mountain-200 Black, 42
Mountain-200 Black, 46
                                             Black
                                             Black
  Mountain-200 Black,
Road-250 Red, 44
Road-250 Red, 52
Road-250 Red, 52
Road-250 Black, 44
Road-250 Black, 44
                                             Red
                                                                               2443.35
2443.35
                                             Red
                                             Red
                                                                           2181.5625
2181.5625
2181.5625
                                             Red
                                             Black
                                             Black
   Road-250 Black, 52
Joad-250 Black, 58
                                                                            2181.5625
2181.5625
                                             Black
                                             Black
```

Find the ProductName without red/black Color having ProductPrice >= 1500

```
SELECT
ProductName,
ProductColor,
ProductPrice
FROM Products
WHERE ProductColor NOT IN ('Red','Black')
AND ProductPrice >= 1500;
```

```
mysql> SELECT
    -> ProductName,
         ProductColor,
    ->
           ProductPrice
    -> FROM Products
    -> WHERE ProductColor NOT IN ('Red','Black')
    -> AND ProductPrice >= 1500;
                                 ProductColor | ProductPrice
  ProductName
  Mountain-100 Silver, 38
                                 Silver
                                                          3399.99
  Mountain-100 Silver, 42
                                                         3399.99
                                 Silver
 Mountain-100 Silver, 44
Mountain-100 Silver, 48
Mountain-200 Silver, 38
                                 Silver
                                                         3399.99
                                 Silver
                                                          3399.99
                                                       2071.4196
                                 Silver
  Mountain-200 Silver, 42
                                 Silver
                                                       2071.4196
  Mountain-200 Silver, 46
                                 Silver
                                                       2071.4196
  Touring-1000 Yellow, 46
Touring-1000 Yellow, 50
                                 Yellow
                                                         2384.07
                                 Yellow
                                                         2384.07
  Touring-1000 Yellow, 54
                                 Yellow
                                                         2384.07
  Touring-1000 Yellow, 60
                                 Yellow
                                                          2384.07
 Touring-1000 Blue, 46
Touring-1000 Blue, 50
Touring-1000 Blue, 54
                                 Blue
                                                          2384.07
                                 Blue
                                                          2384.07
                                 Blue
                                                          2384.07
  Touring-1000 Blue, 60
                                 Blue
                                                          2384.07
 Road-350-W Yellow, 40
Road-350-W Yellow, 42
Road-350-W Yellow, 44
                                 Yellow
                                                          1700.99
                                 Yellow
                                                          1700.99
                                 Yellow
                                                          1700.99
  Road-350-W Yellow, 48
                                Yellow
                                                          1700.99
 9 rows in set (0.01 sec)
```

WildCard | - % [0 or many characters] or _ [underscore _ single character]

```
Harry Potter and the Philosopher's Stone (1997)
Harry Potter and the Chamber of Secrets (1998)
Harry Potter and the Prisoner of Azkaban (1999)
Harry Potter and the Goblet of Fire (2000)
Harry Potter and the Order of the Phoenix (2003)
Harry Potter and the Half-Blood Prince (2005)
Harry Potter and the Deathly Hallows (2007)
```



% Prisoner %

Harry Potter and the Prisoner of Azkaban (1999)



_str LIKE NOT LIKE

% Phoenix %

Harry Potter and the Order of the Phoenix



%

%ing

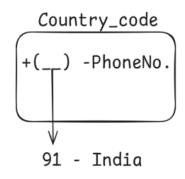
Painting	Chilling
Eating	Talking
Swimming	Playing
Dancing	Singing
Working	Hanging
Reading	Sleeping
Waiting	Sketching
Riding	Beating

Play% Playing Played Playful PlayStation Player PlayStore Playground

_

k_ng -> King / Kong

De_d -> Deed / Dead



https://www.countrycode.org/

First Name of a Customer Starts with 'K'

```
SELECT
FirstName,
LastName,
Gender
FROM Customers
WHERE FirstName LIKE 'k%';
```

```
mysql> SELECT
   -> FirstName,
-> LastName
        LastName,
          Gender
   ->
   -> FROM Customers
   -> WHERE FirstName LIKE 'k%';
 FirstName | LastName
                           Gender
               ALVAREZ
 KARI
 KARLA
               GOEL
  KRISTI
               PEREZ
 KATELYN
               HERNANDEZ
 KATELYN
               KELLY
               CARTER
                             F
 KATELYN
                             M
F
 KYLE
               FOSTER
 KATELYN
               SANCHEZ
                             М
 KARL
               SHAN
  KURT
               PAL
                             М
 KELLI
               CAI
 KATRINA
               BECKER
                             M
M
F
 KYLE
               SCOTT
 KRISTOPHER
               MEHTA
 KARI
               KIM
  KYLE
               PATTERSON
                             М
  KENNETH
               KUMAR
                             М
 KATRINA
               NATH
 KATHERINE
               BRYANT
```

-- First Name of a Customer Starts with 'K' and ends with 'a'

```
SELECT
FirstName,
LastName,
Gender
FROM Customers
WHERE FirstName LIKE 'k%a';
-- 25 row(s) returned
```

-- First Name of a Customer Starts with 'T' and LastName ends with 'i'

```
260 · SELECT
261
           FirstName,
262
           LastName,
263
           Gender
264
      FROM Customers
265
      WHERE FirstName LIKE 'T%'
      AND LastName LIKE '%i';
266
Export: Wrap Cell Content: IA
  FirstName LastName Gender
  TIFFANY
        LI
  TODD LI M
  TROY
       SURI
  TARA RAJI F
  TAMMY SAI F
THOMAS JAI M
```

-- Find the customer LastName with 'A' in middle, then one character _ and 'G' -> '%A_G'

SELECT
FirstName,
LastName,
Gender
FROM Customers
WHERE LastName LIKE '%A_G';

FirstName	LastName	Gender
JON	YANG	М
EUGENE	HUANG	M
SHANNON	WANG	F
ETHAN	ZHANG	M
TIFFANY	LIANG	F
TAMARA	LIANG	F
CURTIS	YANG	M
CRYSTAL	WANG	F
MAURICE	TANG	M

-- Find the ProductName where the Product SKU end with 'L' or start with 'HL'

SELECT
ProductName,
ProductSKU
FROM Products
WHERE ProductSKU LIKE '%L'
OR ProductSKU LIKE 'HL%';
-- 14 row(s) returned

ProductName	ProductSKU
Sport-100 Helmet, Red	HL-U509-R
Sport-100 Helmet, Black	HL-U509
Mountain Bike Socks, L	SO-B909-L
Sport-100 Helmet, Blue	HL-U509-B
Long-Sleeve Logo Jersey, L	LJ-0192-L
Men's Sports Shorts, L	SH-M897-L
Women's Tights, L	TG-W091-L
Men's Bib-Shorts, L	SB-M891-L
Half-Finger Gloves, L	GL+H102-L
Full-Finger Gloves, L	GL-F110-L
Classic Vest, L	VE-C304-L
Women's Mountain Shorts, L	SH-W890-L
Racing Socks, L	SO-R809-L
Short-Sleeve Classic Jerse	SJ-0194-L

-- Find the ProductName where ProductSKU starts with 'TI' or 'ModelName' ends with 'W' or ProductName having Mountain Bike with '3 digit' CC engine.

SELECT
ProductName,
ProductSKU,
ModelName
FROM Products
WHERE ProductSKU LIKE 'TI%'
OR ModelName LIKE '%W'
OR ProductName LIKE 'Mountain-___%';

ProductName	ProductSKU	ModelName	ProductName	ProductSKU	ModelName
Mountain-100 Silver, 38	BK-M82S-38	Mountain-100	ML Mountain Tire	TI-M602	ML Mountain
Mountain-100 Silver, 42	BK-M82S-42	Mountain-100	HL Mountain Tire	TI-M823	HL Mountain
Mountain-100 Silver, 44	BK-M82S-44	Mountain-100	LL Road Tire	TI-R092	LL Road Tire
Mountain-100 Silver, 48	BK-M82S-48	Mountain-100	ML Road Tire	TI-R628	ML Road Tire
Mountain-100 Black, 38	BK-M82B-38	Mountain-100	HL Road Tire	TI-R982	HL Road Tire
Mountain-100 Black, 42	BK-M82B-42	Mountain-100	Touring Tire	TI-T723	Touring Tire
Mountain-100 Black, 44	BK-M82B-44	Mountain-100	ML Mountain Frame-W	FR-M63S-38	ML Mountain
Mountain-100 Black, 48	BK-M82B-48	Mountain-100	Road-350-W Yellow, 40	BK-R 79Y-40	Road-350-W
Mountain-200 Silver, 38	BK-M68S-38	Mountain-200	Road-350-W Yellow, 42	BK-R79Y-42	Road-350-W
Mountain-200 Silver, 42	BK-M68S-42	Mountain-200	Road-350-W Yellow, 44	BK-R 79Y-44	Road-350-W
Mountain-200 Silver, 46	BK-M68S-46	Mountain-200	Road-350-W Yellow, 48	BK-R.79Y-48	Road-350-W
Mountain-200 Black, 38	BK-M68B-38	Mountain-200	Mountain-400-W Silver	BK-M38S-38	Mountain-40
Mountain-200 Black, 42	BK-M68B-42	Mountain-200	Mountain-400-W Silver	BK-M38S-40	Mountain-40
Mountain-200 Black, 46	BK-M68B-46	Mountain-200	Mountain-400-W Silver	BK-M38S-42	Mountain-40
Mountain-300 Black, 38	BK-M47B-38	Mountain-300	Mountain-400-W Silver	BK-M38S-46	Mountain-40
Mountain-300 Black, 40	BK-M47B-40	Mountain-300	Mountain-500 Silver, 40	BK-M18S-40	Mountain-500

IN / NOT IN

```
SELECT * FROM Customers;
SELECT DISTINCT Occupation FROM Customers;
-- Professional
-- Management
-- Skilled Manual
-- Clerical
-- Manual
```

```
SELECT
FirstName,
LastName,
EmailAddress,
AnnualIncome,
Occupation
FROM Customers
WHERE Occupation LIKE "Professional" OR
Occupation LIKE "Management" OR
Occupation LIKE "Skilled Manual" OR
Occupation LIKE "Clerical" OR
Occupation LIKE "Manual";
```

```
SELECT
FirstName,
LastName,
EmailAddress,
AnnualIncome,
Occupation
FROM Customers
WHERE Occupation = "Professional" OR
Occupation = "Management" OR
Occupation = "Skilled Manual" OR
Occupation = "Clerical" OR
Occupation = "Manual";
```

```
SELECT
FirstName,
LastName,
EmailAddress,
AnnualIncome,
Occupation
FROM Customers
WHERE Occupation IN ("Professional", "Management", "Skilled Manual", "Clerical", "Manual");
```

```
351 • SELECT DISTINCT EducationLevel FROM Customers;
352
353
                                Export: Wrap Cell Content: IA
 EducationLevel
    Bachelors
    Partial College
    High School
    Partial High School
    Graduate Degree
 -- 'Bachelors' , 'Graduate Degree'
SELECT
    FirstName,
    LastName,
    EmailAddress,
    AnnualIncome,
    EducationLevel,
    Occupation
FROM Customers
WHERE EducationLevel IN ('Bachelors' , 'Graduate Degree');
-- 1013 row(s) returned
SELECT
    FirstName,
    LastName,
    EmailAddress,
    AnnualIncome,
    EducationLevel,
    Occupation
FROM Customers
WHERE EducationLevel NOT IN ('Partial College', 'High School', 'Partial High School');
-- Find the Customers Having EducationLevel = ['Bachelors','Graduate Degree']
-- AND Occupations = ['Professional', 'Management']
SELECT
    FirstName,
   LastName,
    EmailAddress,
    AnnualIncome,
    EducationLevel,
    Occupation
FROM Customers
WHERE EducationLevel NOT IN ('Partial College', 'High School', 'Partial High School')
AND Occupation IN ('Professional', 'Management');
-- 601 row(s) returned
```

```
SELECT
FirstName,
LastName,
EmailAddress,
AnnualIncome,
EducationLevel,
Occupation
FROM Customers
WHERE EducationLevel IN ('Bachelors' , 'Graduate Degree')
AND Occupation IN ('Professional', 'Management');
```

```
Between > Range [Inclusive] -> [>= AND <=] > Filter on Rows
```

Find the Customer who are having Children Between 1 to 3.

```
SELECT
FirstName,
LastName,
MaritalStatus,
TotalChildren
FROM Customers
WHERE TotalChildren >= 1 AND TotalChildren <=3;
-- 1061 row(s) returned
```

```
SELECT
FirstName,
LastName,
MaritalStatus,
TotalChildren
FROM Customers
WHERE TotalChildren BETWEEN 1 AND 3;
```

FirstName	LastName	MaritalStatus	TotalChildren
JON	YANG	М	2
EUGENE	HUANG	S	3
RUBEN	TORRES	M	3
MARCO	MEHTA	M	3
LAUREN	WALKER	M	2
IAN	JENKINS	M	2
SYDNEY	BENNETT	S	3
CLARENCE	RAI	S	2
ALEJANDRO	BECK	M	2
HAROLD	SAI	S	2
JESSIE	ZHAO	М	2
JILL	JIMENEZ	M	2
YMMIL	MORENO	M	2

Combination of natural and synthetic fibers sta... White

Carries 4 bikes securely; steel construction, fits ... NA

NA

Mountain Bike Socks Combination of natural and synthetic fibers sta... White

Bike Wash

Washes off the toughest road grime; dissolves ... NA

All-Purpose Bike Stand

Perfect all-purpose bike stand for working on yo... NA

ш

3,3963

3.3963

2.9733

59.466

9.5

9.5

7.95

159

132 • SELECT * FROM Products WHERE ProductName LIKE "%Bike%"; 133 134 Export: Wrap Cell Content: IA ProductColor ProductSize ProductStyle ProductCost ProductPrice ProductKey ProductSubcategoryKey ProductSKU ProductName ModelName ProductDescription

Hitch Rack - 4-Bike

134 • SELECT * FROM Products WHERE ProductSKU LIKE 'BK%'; 135 Export: Wrap Cell Content: IA ProductKey ProductSubcategoryKey ProductSKU ProductName ModelName ProductDescription ProductColor BK_R93R-62 Road-150 Red, 62 Road-150 This bike is ridden by race winners. Developed ... Red BK_R93R-44 Road-150 Red, 44 Road-150 This bike is ridden by race winners. Developed ... Red 311 This bike is ridden by race winners. Developed \dots 312 BK R93R-48 Road-150 Red, 48 Road-150 BK_R93R-52 Road-150 Red, 52 Road-150 This bike is ridden by race winners. Developed ... Red 313 314 BK-R93R-56 Road-150 Red, 56 Road-150 This bike is ridden by race winners. Developed ... Red BK R68R-58 Road-450 Red, 58 Road-450 A true multi-sport bike that offers streamlined ri... Red 315 BK R68R-60 Road-450 Red, 60 Road-450 A true multi-sport bike that offers streamlined ri... Red 316 BK R68R-44 Road-450 Red, 44 Road-450 A true multi-sport bike that offers streamlined ri... Red 318 BK-R68R-48 Road-450 Red, 48 Road-450 A true multi-sport bike that offers streamlined ri... Red 319 BK R68R-52 Road-450 Red, 52 Road-450 A true multi-sport bike that offers streamlined ri... Red 320 BK R50R-58 Road-650 Red, 58 Road-650 Value-priced bike with many features of our top... Red 322 BK R50R-60 Road-650 Red, 60 Road-650 Value-priced bike with many features of our top... Red Value-priced bike with many features of our top... Red 324 BK-R50R-62 Road-650 Red, 62 Road-650

SO-8909-M Mountain Bike Socks, M Mountain Bike Socks

Mountain Bike Socks, L

Bike Wash - Dissolver

All-Purpose Bike Stand

Hitch Rack - 4-Bike

SO-8909-L

CI -9009

ST-1401

218

219

484

▶ 486

23

23

29

27

SELECT ProductName, ProductSKU, ProductColor, ProductPrice FROM Products WHERE ProductPrice BETWEEN 1000 AND 3000 AND ProductSKU LIKE 'BK%'; -- 44 row(s) returned

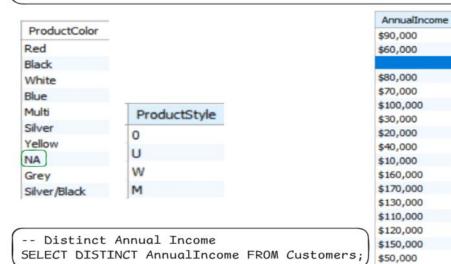
	I make a second		
ProductName	ProductSKU	ProductColor	ProductPrice
Road-450 Red, 48	BK-R68R-48	Red	1457.99
Road-450 Red, 52	BK-R68R-52	Red	1457.99
Mountain-200 Silver, 38	BK-M68S-38	Silver	2071.4196
Mountain-200 Silver, 42	BK-M68S-42	Silver	2071.4196
Mountain-200 Silver, 46	BK-M68S-46	Silver	2071.4196
Mountain-200 Black, 38	BK-M68B-38	Black	2049.0982
Mountain-200 Black, 42	BK-M68B-42	Black	2049.0982
Mountain-200 Black, 46	BK-M68B-46	Black	2049.0982
Mountain-300 Black, 38	BK-M47B-38	Black	1079.99
Mountain-300 Black, 40	BK-M478-40	Black	1079.99
Mountain-300 Black, 44	BK-M478-44	Black	1079.99
Mountain-300 Black, 48	BK-M478-48	Black	1079.99
Road-250 Red, 44	BK-R89R-44	Red	2443.35
aro n 40	DIZ DOOD 40	n-4	2442.25

```
SELECT
ProductName,
ProductSKU,
ProductColor,
ProductPrice
FROM Products
WHERE ProductPrice BETWEEN 1000 AND 3000
AND ProductSKU LIKE 'BK%'
AND ProductColor IN ('Red', 'Silver', 'Black');
-- 23 row(s) returned
```

ProductName	ProductSKU	ProductColor	ProductPrice
Road-450 Red, 58	BK-R68R-58	Red	1457.99
Road-450 Red, 60	BK-R68R-60	Red	1457.99
Road-450 Red, 44	BK-R68R-44	Red	1457.99
Road-450 Red, 48	BK-R68R-48	Red	1457.99
Road-450 Red, 52	BK-R68R-52	Red	1457.99
Mountain-200 Silver, 38	BK-M68S-38	Silver	2071.4196
Mountain-200 Silver, 42	BK-M68S-42	Silver	2071.4196
Mountain-200 Silver, 46	BK-M68S-46	Silver	2071.4196
Mountain-200 Black, 38	BK-M68B-38	Black	2049.0982
Mountain-200 Black, 42	BK-M68B-42	Black	2049.0982
Mountain-200 Black, 46	BK-M68B-46	Black	2049.0982
Mountain-300 Black, 38	BK-M47B-38	Black	1079.99
Mountain-300 Black, 40	BK-M47B-40	Black	1079.99
Mountain-300 Black, 44	BK-M47B-44	Black	1079.99
Mountain-300 Black, 48	BK-M47B-48	Black	1079.99
Road-250 Red, 44	BK-R89R-44	Red	2443.35
Road-250 Red, 48	BK-R89R-48	Red	2443.35
Road-250 Red, 52	BK-R89R-52	Red	2443.35
Road-250 Red, 58	BK-R89R-58	Red	2181.5625
Road-250 Black, 44	BK-R89B-44	Black	2181.5625
n	DIV D 00D 40	ni. d.	2101 FERE

DISTINCT

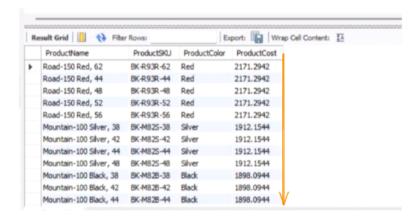
-- DISTINCT - Bringing a unique information from a single columns SELECT * FROM Products;
-- ProductColor SELECT DISTINCT ProductColor FROM Products;
-- ProductSize SELECT DISTINCT ProductSize FROM Products;
-- ProductStyle SELECT DISTINCT ProductStyle FROM Products;



ORDER BY | - Used for Sorting

Categorical Column - ASC [Default] / DESC [Alphabetical Order] Numerical Column [Low to High, High to Low]

SELECT ProductName, ProductSKU, ProductColor, ProductCost FROM Products ORDER BY ProductCost DESC;

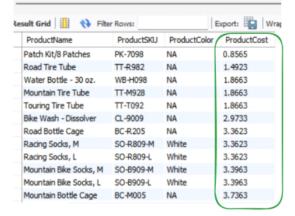


'2 · SELECT

- 13 ProductName, 74 ProductSKU,
- 75 ProductColor,
- 16 ProductCost
- 77 FROM Products
- ORDER BY ProductCost; ASC 78

SELECT

ProductName, ProductSKU, ProductColor, ProductCost FROM Products ORDER BY ProductCost ASC;



```
-- Customer_Name -> Asc And Total Children Desc
SELECT
    FirstName,
    LastName,
    EmailAddress,
    TotalChildren
FROM Customers
ORDER BY TotalChildren DESC,
FirstName; -- ASC
```

FirstName	LastName	EmailAddress	TotalChildren
WHITNEY	LOPEZ	whitney15@learnsector.com	5
WYATT	PRICE	wyatt52@learnsector.com	5
ZACHARY	ANDERSON	zachary39@learnsector.com	5
AARON	WRIGHT	aaron52@learnsector.com	4
AARON	BRYANT	aaron17@learnsector.com	4
ADRIAN	STEWART	adrian21@learnsector.com	4
ADRIENNE	GOMEZ	adrienne1@learnsector.com	4
AIDAN	ROSS	aidan4@learnsector.com	4
ALBERTO	NAVARRO	alberto11@learnsector.com	4
ALEJANDRO	ZHOU	alejandro11@learnsector.com	4
ALEXANDER	WILLIAMS	alexander4@learnsector.com	4
ALFREDO /	MORENO	alfredo7@learnsector.com	4

SELECT
FirstName,
LastName,
EmailAddress,
TotalChildren
FROM Customers
ORDER BY FirstName, TotalChildren DESC;

FirstName	LastName	EmailAddress	TotalChildren
AARON	WRIGHT	aaron52@learnsector.com	4
AARON	BRYANT	aaron 17@learnsector.com	4
AARON	KING	aaron51@learnsector.com	2
AARON	WANG	aaron24@learnsector.com	2
AARON	SHARMA	aaron30@learnsector.com	1
AARON	ROSS	aaron3@learnsector.com	1
AARON	YOUNG	aaron49@learnsector.com	0 🗸
ABBY	FERNANDEZ	abby 13@learnsector.com	2
ABBY	SAI	abby4@learnsector.com	0
ABIGAIL	JONES	abigail50@learnsector.com	5
ABIGAIL	FOSTER	abigail68@learnsector.com	5
ABIGAIL	PRICE	abigail25@learnsector.com	2

SELECT
FirstName, -- 1
LastName, -- 2
EmailAddress, -- 3
TotalChildren -- 4
FROM Customers
ORDER BY 1,4 DESC;

Sort the Products Based on ProductSubcategoryKey ASC , ProductPrice DESC.

Select * FROM Products;

SELECT

ProductSubcategoryKey,

ProductName,

ProductPrice

FROM Products

ORDER BY ProductSubcategoryKey,

ProductPrice DESC;

-- 293 row(s) returned

SELECT ProductSubcategoryKey, -- 1 ProductName, -- 2 ProductPrice -- 3 FROM Products ORDER BY 1,3 DESC;

ProductSubcategoryKey	ProductName	ProductPrice
1	Mountain-100 Silver, 38	3399.99
1	Mountain-100 Silver, 42	3399.99
1	Mountain-100 Silver, 44	3399.99
1	Mountain-100 Silver, 48	3399.99
1	Mountain-100 Black, 38	3374.99
1	Mountain-100 Black, 42	3374.99
1	Mountain-100 Black, 44	3374.99
1	Mountain-100 Black, 48	3374.99
1	Mountain-200 Silver, 38	2071.4196
1	Mountain-200 Silver, 42	2071.4196
1	Mountain-200 Silver, 46	2071.4196
1	Mountain-200 Black, 38	2049.0982
ProductSubcategoryKey	ProductName	ProductPrice
2	Road-150 Red, 62	3578.27
2	Road-150 Red, 44	3578.27
2	Road-150 Red, 48	3578.27
2	Road-150 Red, 52	3578.27
2	Road-150 Red, 56	3578.27
2	Road-250 Red, 44	2443.35
2	Road-250 Red, 48	2443.35
2	Road-250 Red, 52	2443.35
2	Road-250 Red, 58	2181.5625
2	Road-250 Black, 44	2181.5625
2	Road-250 Black, 48	2181.5625
4	Tream End Supply 10	

Road-250 Black, 52 2181.5625