

The image features a solid teal background. A white rectangular area is positioned on the right side, containing the text 'Java Enterprise Edition' and 'ANUDIP FOUNDATION'.

**Java Enterprise Edition**

**ANUDIP FOUNDATION**

A solid teal horizontal bar is located at the bottom of the white rectangular area.

## SQL Basic Select Statement: Exercise-1

Time: 240 Min

Write a query to display all the columns from salesman table.

*Sample table: salesman*

salesman_id	name	city	commission
5001	James Hoog	New York	0.15
5002	Nail Knite	Paris	0.13
5005	Pit Alex	London	0.11
5006	Mc Lyon	Paris	0.14
5007	Paul Adam	Rome	0.13
5003	Lauson Hen	San Jose	0.12

**Sample Solution:**

```
SELECT * FROM salesman;
```

Copy

Output of the Query:

salesman_id	name	city	commission
5001	James Hoog	New York	0.15
5002	Nail Knite	Paris	0.13
5005	Pit Alex	London	0.11
5006	Mc Lyon Paris		0.14
5007	Paul Adam	Rome	0.13
5003	Lauson Hen	San Jose	0.12

**Explanation:****SQL syntax:**

```
SELECT [DISTINCT] [<qualifier>.]<column_name> [*] |
<expression>
[AS <column_alias>],...
FROM <table_or_view_name> |
<inline_view>
[[AS] <table_alias>]
[WHERE <predicate>]
[GROUP BY [<qualifier>.]<column_name>,...]
[HAVING <predicate>]
]
[ORDER BY <column_name> |
<column_number>
[ASC | DESC],...
];
```

### SQL Basic Select Statement: Exercise-2

Write a query to display only name and commission from table salesman.

*Sample table: salesman*

salesman_id	name	city	commission
5001	James Hoog	New York	0.15
5002	Nail Knite	Paris	0.13
5005	Pit Alex	London	0.11
5006	Mc Lyon	Paris	0.14
5007	Paul Adam	Rome	0.13
5003	Lauson Hen	San Jose	0.12

#### Sample Solution:

```
SELECT name, commission
```

```
FROM salesman;
```

Copy

Output of the Query:

```
name      commission
James Hoog 0.15
Nail Knite 0.13
Pit Alex   0.11
Mc Lyon    0.14
Paul Adam  0.13
Lauson Hen 0.12
```

### SQL Basic Select Statement: Exercise-3

Write a query to display salesman\_id, salesman name, order date, order no, and purchase amount from orders table.

*Sample table : orders*

ord_no	purch_amt	ord_date	customer_id	salesman_id
70001	150.5	2012-10-05	3005	5002
70009	270.65	2012-09-10	3001	5005
70002	65.26	2012-10-05	3002	5001
70004	110.5	2012-08-17	3009	5003
70007	948.5	2012-09-10	3005	5002
70005	2400.6	2012-07-27	3007	5001
70008	5760	2012-09-10	3002	5001
70010	1983.43	2012-10-10	3004	5006
70003	2480.4	2012-10-10	3009	5003
70012	250.45	2012-06-27	3008	5002
70011	75.29	2012-08-17	3003	5007
70013	3045.6	2012-04-25	3002	5001

**Sample Solution :**

```
SELECT ord_date, salesman_id, ord_no, purch_amt
FROM orders;
```

Copy

Output of the Query:

```
ord_date      salesman_id  ord_no  purch_amt
2012-09-10    5005        70009   270.65
2012-10-05    5001        70002    65.26
2012-08-17    5003        70004   110.50
2012-07-27    5001        70005  2400.60
2012-09-10    5001        70008  5760.00
2012-10-10    5006        70010  1983.43
2012-10-10    5003        70003  2480.40
2012-08-17    5007        70011    75.29
2012-04-25    5001        70013  3045.60
2012-10-05    5002        70001   150.50
2012-09-10    5002        70007   948.50
2012-06-27    5002        70012   250.45
```

**SQL Basic Select Statement : Exercise-4 .**

Write a query which will retrieve the values of salesman id of all salesmen getting orders from the customers in orders table without any repeats.

*Sample table: orders*

ord_no	purch_amt	ord_date	customer_id	salesman_id
70001	150.5	2012-10-05	3005	5002
70009	270.65	2012-09-10	3001	5005
70002	65.26	2012-10-05	3002	5001
70004	110.5	2012-08-17	3009	5003
70007	948.5	2012-09-10	3005	5002
70005	2400.6	2012-07-27	3007	5001
70008	5760	2012-09-10	3002	5001
70010	1983.43	2012-10-10	3004	5006
70003	2480.4	2012-10-10	3009	5003
70012	250.45	2012-06-27	3008	5002
70011	75.29	2012-08-17	3003	5007
70013	3045.6	2012-04-25	3002	5001

**Sample Solution :**

```
SELECT DISTINCT salesman_id
```

```
FROM orders;
```

Copy  
Output of the Query:

```
salesman_id
5002
5003
5006
5001
5005
5007
```

#### SQL Basic Select Statement: Exercise-5 .

Write a query to display names and city of salesman, who belongs to the city of Paris.

*Sample table: salesman*

salesman_id	name	city	commission
5001	James Hoog	New York	0.15
5002	Nail Knite	Paris	0.13
5005	Pit Alex	London	0.11
5006	Mc Lyon	Paris	0.14
5007	Paul Adam	Rome	0.13
5003	Lauson Hen	San Jose	0.12

#### Sample Solution :

```
SELECT name,city
FROM salesman
WHERE city='Paris';
```

Copy  
Output of the Query:

```
name      city
Nail Knite Paris
Mc Lyon   Paris
```

#### SQL Basic Select Statement: Exercise-6 .

Write a SQL statement to display all the information for those customers with a grade of 200.

*Sample table: customer*

customer_id	cust_name	city	grade	salesman_id
3002	Nick Rimando	New York	100	5001
3007	Brad Davis	New York	200	5001
3005	Graham Zusi	California	200	5002
3008	Julian Green	London	300	5002
3004	Fabian Johnson	Paris	300	5006
3009	Geoff Cameron	Berlin	100	5003
3003	Jozy Altidor	Moscow	200	5007
3001	Brad Guzan	London		5005

**Sample Solution:**

```
SELECT *FROM customer
```

```
WHERE grade=200;
```

Copy

Output of the Query:

customer_id	cust_name	city	grade	salesman_id
3007	Brad Davis	New York	200	5001
3005	Graham Zusi	California	200	5002
3003	Jozy Altidor	Moscow	200	5007

**SQL Basic Select Statement: Exercise-7 .**

Write a sql query to display the order number followed by order date and the purchase amount for each order which will be delivered by the salesman who is holding the ID 5001.

*Sample table: orders*

ord_no	purch_amt	ord_date	customer_id	salesman_id
70001	150.5	2012-10-05	3005	5002
70009	270.65	2012-09-10	3001	5005
70002	65.26	2012-10-05	3002	5001
70004	110.5	2012-08-17	3009	5003
70007	948.5	2012-09-10	3005	5002
70005	2400.6	2012-07-27	3007	5001
70008	5760	2012-09-10	3002	5001
70010	1983.43	2012-10-10	3004	5006
70003	2480.4	2012-10-10	3009	5003
70012	250.45	2012-06-27	3008	5002
70011	75.29	2012-08-17	3003	5007
70013	3045.6	2012-04-25	3002	5001

**Sample Solution:**

```
SELECT ord_no, ord_date, purch_amt
```

FROM orders

WHERE salesman\_id=5001;

Copy

Output of the Query:

ord_no	ord_date	purch_amt
70002	2012-10-05	65.26
70005	2012-07-27	2400.60
70008	2012-09-10	5760.00
70013	2012-04-25	3045.60

### SQL Basic Select Statement: Exercise-8 .

Write a SQL query to display the Nobel prizes for 1970.

*Sample table : nobel\_win*

YEAR	SUBJECT	WINNER	COUNTRY	CATEGORY
1970	Physics	Hannes Alfven	Sweden	Scientist
1970	Physics	Louis Neel	France	Scientist
1970	Chemistry	Lluis Federico Leloir	France	Scientist
1970	Physiology	Ulf von Euler	Sweden	Scientist
1970	Physiology	Bernard Katz	Germany	Scientist
1970	Literature	Aleksandr Solzhenitsyn	Russia	Linguist
1970	Economics	Paul Samuelson	USA	Economist
1970	Physiology	Julius Axelrod	USA	Scientist
1971	Physics	Dennis Gabor	Hungary	Scientist
1971	Chemistry	Gerhard Herzberg	Germany	Scientist
1971	Peace	Willy Brandt	Germany	Chancellor
1971	Literature	Pablo Neruda	Chile	Linguist
1971	Economics	Simon Kuznets	Russia	Economist
1978	Peace	Anwar al-Sadat	Egypt	President
1978	Peace	Menachem Begin	Israel	Prime Minister
1987	Chemistry	Donald J. Cram	USA	Scientist
1987	Chemistry	Jean-Marie Lehn	France	Scientist
1987	Physiology	Susumu Tonegawa	Japan	Scientist
1994	Economics	Reinhard Selten	Germany	Economist
1994	Peace	Yitzhak Rabin	Israel	PrimeMinister
1987	Physics	Johannes Georg Bednorz	Germany	Scientist
1987	Literature	Joseph Brodsky	Russia	Linguist
1987	Economics	Robert Solow	USA	Economist
1994	Literature	Kenzaburo Oe	Japan	

**Sample Solution :**

SELECT year,subject,winner

FROM nobel\_win

```
WHERE year=1970;
```

Copy  
Output of the Query:

```
year    subject    winner
1970    Physics    Hannes Alfven
1970    Physics    Louis Neel
1970    Chemistry   Luis Federico Leloir
1970    Physiology  Julius Axelrod
1970    Physiology  Ulf von Euler
1970    Physiology  Bernard Katz
1970    Literature  Aleksandr Solzhenitsyn
1970    Economics  Paul Samuelson
```

### SQL Basic Select Statement: Exercise-9 .

Write a SQL query to know the winner of the 1971 prize for Literature.

*Sample table: nobel\_win*

YEAR	SUBJECT	WINNER	COUNTRY	CATEGORY
1970	Physics	Hannes Alfven	Sweden	Scientist
1970	Physics	Louis Neel	France	Scientist
1970	Chemistry	Lluis Federico Leloir	France	Scientist
1970	Physiology	Ulf von Euler	Sweden	Scientist
1970	Physiology	Bernard Katz	Germany	Scientist
1970	Literature	Aleksandr Solzhenitsyn	Russia	Linguist
1970	Economics	Paul Samuelson	USA	Economist
1970	Physiology	Julius Axelrod	USA	Scientist
1971	Physics	Dennis Gabor	Hungary	Scientist
1971	Chemistry	Gerhard Herzberg	Germany	Scientist
1971	Peace	Willy Brandt	Germany	Chancellor
1971	Literature	Pablo Neruda	Chile	Linguist
1971	Economics	Simon Kuznets	Russia	Economist
1978	Peace	Anwar al-Sadat	Egypt	President
1978	Peace	Menachem Begin	Israel	Prime Minister
1987	Chemistry	Donald J. Cram	USA	Scientist
1987	Chemistry	Jean-Marie Lehn	France	Scientist
1987	Physiology	Susumu Tonegawa	Japan	Scientist
1994	Economics	Reinhard Selten	Germany	Economist
1994	Peace	Yitzhak Rabin	Israel	PrimeMinister
1987	Physics	Johannes Georg Bednorz	Germany	Scientist
1987	Literature	Joseph Brodsky	Russia	Linguist
1987	Economics	Robert Solow	USA	Economist
1994	Literature	Kenzaburo Oe	Japan	



**Sample Solution:**

```

SELECT winner

FROM nobel_win

WHERE year = 1971

AND subject = 'Literature';

```

Copy  
Output of the Query:

```

winner
Pablo Neruda

```

**SQL Basic Select Statement: Exercise-10 .**

Write a SQL query to display the year and subject that won 'Dennis Gabor' his prize.

*Sample table:* nobel\_win

YEAR	SUBJECT	WINNER	COUNTRY	CATEGORY
-----				
1970	Physics	Hannes Alfven	Sweden	Scientist
1970	Physics	Louis Neel	France	Scientist
1970	Chemistry	Lluis Federico Leloir	France	Scientist
1970	Physiology	Ulf von Euler	Sweden	Scientist
1970	Physiology	Bernard Katz	Germany	Scientist
1970	Literature	Aleksandr Solzhenitsyn	Russia	Linguist
1970	Economics	Paul Samuelson	USA	Economist
1970	Physiology	Julius Axelrod	USA	Scientist
1971	Physics	Dennis Gabor	Hungary	Scientist
1971	Chemistry	Gerhard Herzberg	Germany	Scientist
1971	Peace	Willy Brandt	Germany	Chancellor
1971	Literature	Pablo Neruda	Chile	Linguist
1971	Economics	Simon Kuznets	Russia	Economist
1978	Peace	Anwar al-Sadat	Egypt	President
1978	Peace	Menachem Begin	Israel	Prime Minister
1987	Chemistry	Donald J. Cram	USA	Scientist
1987	Chemistry	Jean-Marie Lehn	France	Scientist
1987	Physiology	Susumu Tonegawa	Japan	Scientist
1994	Economics	Reinhard Selten	Germany	Economist
1994	Peace	Yitzhak Rabin	Israel	Prime Minister
1987	Physics	Johannes Georg Bednorz	Germany	Scientist
1987	Literature	Joseph Brodsky	Russia	Linguist
1987	Economics	Robert Solow	USA	Economist
1994	Literature	Kenzaburo Oe	Japan	

**Sample Solution:**

```

SELECT year, subject
FROM nobel_win
WHERE winner = 'Dennis Gabor';

```

Copy  
Output of the Query:

```

year    subject
1971    Physics

```

### SQL Basic Select Statement: Exercise-11 .

Write a SQL query to give the name of the 'Physics' winners since the year 1950.

*Sample table:* nobel\_win

YEAR	SUBJECT	WINNER	COUNTRY	CATEGORY
-----				
1970	Physics	Hannes Alfven	Sweden	Scientist
1970	Physics	Louis Neel	France	Scientist
1970	Chemistry	Lluis Federico Leloir	France	Scientist
1970	Physiology	Ulf von Euler	Sweden	Scientist
1970	Physiology	Bernard Katz	Germany	Scientist
1970	Literature	Aleksandr Solzhenitsyn	Russia	Linguist
1970	Economics	Paul Samuelson	USA	Economist
1970	Physiology	Julius Axelrod	USA	Scientist
1971	Physics	Dennis Gabor	Hungary	Scientist
1971	Chemistry	Gerhard Herzberg	Germany	Scientist
1971	Peace	Willy Brandt	Germany	Chancellor
1971	Literature	Pablo Neruda	Chile	Linguist
1971	Economics	Simon Kuznets	Russia	Economist
1978	Peace	Anwar al-Sadat	Egypt	President
1978	Peace	Menachem Begin	Israel	Prime Minister
1987	Chemistry	Donald J. Cram	USA	Scientist
1987	Chemistry	Jean-Marie Lehn	France	Scientist
1987	Physiology	Susumu Tonegawa	Japan	Scientist
1994	Economics	Reinhard Selten	Germany	Economist
1994	Peace	Yitzhak Rabin	Israel	PrimeMinister
1987	Physics	Johannes Georg Bednorz	Germany	Scientist
1987	Literature	Joseph Brodsky	Russia	Linguist
1987	Economics	Robert Solow	USA	Economist
1994	Literature	Kenzaburo Oe	Japan	

**Sample Solution :**

```

SELECT winner
FROM nobel_win

```

```
WHERE year>=1950
```

```
AND subject='Physics';
```

Copy  
Output of the Query:

```
winner
Hannes Alfven
Louis Neel
Dennis Gabor
Johannes Georg Bednorz
```

### SQL Basic Select Statement: Exercise-12 .

Write a SQL query to show all the details (year, subject, winner, country ) of the Chemistry prize winners between the year 1965 to 1975 inclusive.

*Sample table:* nobel\_win

YEAR	SUBJECT	WINNER	COUNTRY	CATEGORY
-----				
1970	Physics	Hannes Alfven	Sweden	Scientist
1970	Physics	Louis Neel	France	Scientist
1970	Chemistry	Lluís Federico Leloir	France	Scientist
1970	Physiology	Ulf von Euler	Sweden	Scientist
1970	Physiology	Bernard Katz	Germany	Scientist
1970	Literature	Aleksandr Solzhenitsyn	Russia	Linguist
1970	Economics	Paul Samuelson	USA	Economist
1970	Physiology	Julius Axelrod	USA	Scientist
1971	Physics	Dennis Gabor	Hungary	Scientist
1971	Chemistry	Gerhard Herzberg	Germany	Scientist
1971	Peace	Willy Brandt	Germany	Chancellor
1971	Literature	Pablo Neruda	Chile	Linguist
1971	Economics	Simon Kuznets	Russia	Economist
1978	Peace	Anwar al-Sadat	Egypt	President
1978	Peace	Menachem Begin	Israel	Prime Minister
1987	Chemistry	Donald J. Cram	USA	Scientist
1987	Chemistry	Jean-Marie Lehn	France	Scientist
1987	Physiology	Susumu Tonegawa	Japan	Scientist
1994	Economics	Reinhard Selten	Germany	Economist
1994	Peace	Yitzhak Rabin	Israel	Prime Minister
1987	Physics	Johannes Georg Bednorz	Germany	Scientist
1987	Literature	Joseph Brodsky	Russia	Linguist
1987	Economics	Robert Solow	USA	Economist
1994	Literature	Kenzaburo Oe	Japan	

### Sample Solution:

```
SELECT year, subject, winner, country
```

```

FROM nobel_win

WHERE subject = 'Chemistry'

AND year >= 1965 AND year <= 1975;

```

Copy  
Output of the Query:

year	subject	winner	country
1970	Chemistry	Luis Federico Leloir	France
1971	Chemistry	Gerhard Herzberg	Germany

### SQL Basic Select Statement: Exercise-13 .

Write a SQL query to show all details of the Prime Ministerial winners after 1972 of Menachem Begin and Yitzhak Rabin.

*Sample table:* nobel\_win

YEAR	SUBJECT	WINNER	COUNTRY	CATEGORY
1970	Physics	Hannes Alfven	Sweden	Scientist
1970	Physics	Louis Neel	France	Scientist
1970	Chemistry	Lluis Federico Leloir	France	Scientist
1970	Physiology	Ulf von Euler	Sweden	Scientist
1970	Physiology	Bernard Katz	Germany	Scientist
1970	Literature	Aleksandr Solzhenitsyn	Russia	Linguist
1970	Economics	Paul Samuelson	USA	Economist
1970	Physiology	Julius Axelrod	USA	Scientist
1971	Physics	Dennis Gabor	Hungary	Scientist
1971	Chemistry	Gerhard Herzberg	Germany	Scientist
1971	Peace	Willy Brandt	Germany	Chancellor
1971	Literature	Pablo Neruda	Chile	Linguist
1971	Economics	Simon Kuznets	Russia	Economist
1978	Peace	Anwar al-Sadat	Egypt	President
1978	Peace	Menachem Begin	Israel	Prime Minister
1987	Chemistry	Donald J. Cram	USA	Scientist
1987	Chemistry	Jean-Marie Lehn	France	Scientist
1987	Physiology	Susumu Tonegawa	Japan	Scientist
1994	Economics	Reinhard Selten	Germany	Economist
1994	Peace	Yitzhak Rabin	Israel	Prime Minister
1987	Physics	Johannes Georg Bednorz	Germany	Scientist
1987	Literature	Joseph Brodsky	Russia	Linguist
1987	Economics	Robert Solow	USA	Economist
1994	Literature	Kenzaburo Oe	Japan	

**Sample Solution:**

```
SELECT * FROM nobel_win
```

```
WHERE year >1972
```

```
AND winner IN ('Menachem Begin',
               'Yitzhak Rabin');
```

Copy  
Output of the Query:

```
year    subject winner    country category
1978    Peace  Menachem Begin Israel Prime Minister
1994    Peace  Yitzhak Rabin  Israel Prime Minister
```

#### SQL Basic Select Statement: Exercise-14 .

Write a SQL query to show all the details of the winners with first name Louis.

*Sample table:* nobel\_win

YEAR	SUBJECT	WINNER	COUNTRY	CATEGORY
1970	Physics	Hannes Alfven	Sweden	Scientist
1970	Physics	Louis Neel	France	Scientist
1970	Chemistry	Lluís Federico Leloir	France	Scientist
1970	Physiology	Ulf von Euler	Sweden	Scientist
1970	Physiology	Bernard Katz	Germany	Scientist
1970	Literature	Aleksandr Solzhenitsyn	Russia	Linguist
1970	Economics	Paul Samuelson	USA	Economist
1970	Physiology	Julius Axelrod	USA	Scientist
1971	Physics	Dennis Gabor	Hungary	Scientist
1971	Chemistry	Gerhard Herzberg	Germany	Scientist
1971	Peace	Willy Brandt	Germany	Chancellor
1971	Literature	Pablo Neruda	Chile	Linguist
1971	Economics	Simon Kuznets	Russia	Economist
1978	Peace	Anwar al-Sadat	Egypt	President
1978	Peace	Menachem Begin	Israel	Prime Minister
1987	Chemistry	Donald J. Cram	USA	Scientist
1987	Chemistry	Jean-Marie Lehn	France	Scientist
1987	Physiology	Susumu Tonegawa	Japan	Scientist
1994	Economics	Reinhard Selten	Germany	Economist
1994	Peace	Yitzhak Rabin	Israel	Prime Minister
1987	Physics	Johannes Georg Bednorz	Germany	Scientist
1987	Literature	Joseph Brodsky	Russia	Linguist
1987	Economics	Robert Solow	USA	Economist
1994	Literature	Kenzaburo Oe	Japan	

#### Sample Solution:

```
SELECT *
FROM nobel_win
```

```
WHERE winner LIKE 'Louis %';
```

Copy

Output of the Query:

```
year    subject winner country category
1970    Physics Louis Neel    France Scientist
```

### SQL Basic Select Statement: Exercise-15 .

Write a SQL query to show all the winners in Physics for 1970 together with the winner of Economics for 1971.

*Sample table:* nobel\_win

YEAR	SUBJECT	WINNER	COUNTRY	CATEGORY
1970	Physics	Hannes Alfven	Sweden	Scientist
1970	Physics	Louis Neel	France	Scientist
1970	Chemistry	Lluis Federico Leloir	France	Scientist
1970	Physiology	Ulf von Euler	Sweden	Scientist
1970	Physiology	Bernard Katz	Germany	Scientist
1970	Literature	Aleksandr Solzhenitsyn	Russia	Linguist
1970	Economics	Paul Samuelson	USA	Economist
1970	Physiology	Julius Axelrod	USA	Scientist
1971	Physics	Dennis Gabor	Hungary	Scientist
1971	Chemistry	Gerhard Herzberg	Germany	Scientist
1971	Peace	Willy Brandt	Germany	Chancellor
1971	Literature	Pablo Neruda	Chile	Linguist
1971	Economics	Simon Kuznets	Russia	Economist
1978	Peace	Anwar al-Sadat	Egypt	President
1978	Peace	Menachem Begin	Israel	Prime Minister
1987	Chemistry	Donald J. Cram	USA	Scientist
1987	Chemistry	Jean-Marie Lehn	France	Scientist
1987	Physiology	Susumu Tonegawa	Japan	Scientist
1994	Economics	Reinhard Selten	Germany	Economist
1994	Peace	Yitzhak Rabin	Israel	PrimeMinister
1987	Physics	Johannes Georg Bednorz	Germany	Scientist
1987	Literature	Joseph Brodsky	Russia	Linguist
1987	Economics	Robert Solow	USA	Economist
1994	Literature	Kenzaburo Oe	Japan	

### Sample Solution:

```
SELECT * FROM nobel_win WHERE (subject ='Physics' AND year=1970) UNION (SELECT * FROM
nobel_win WHERE (subject ='Economics' AND year=1971));
```

Copy

Output of the Query:

```
year    subject    winner    country    category
```

1970	Physics	Hannes Alfven	Sweden	Scientist
1970	Physics	Louis Neel	France	Scientist
1971	Economics	Simon Kuznets	Russia	Economist

### SQL Basic Select Statement: Exercise-16 .

Write a SQL query to show all the winners of nobel prize in the year 1970 except the subject Physiology and Economics.

*Sample table:* nobel\_win

YEAR	SUBJECT	WINNER	COUNTRY	CATEGORY
1970	Physics	Hannes Alfven	Sweden	Scientist
1970	Physics	Louis Neel	France	Scientist
1970	Chemistry	Lluis Federico Leloir	France	Scientist
1970	Physiology	Ulf von Euler	Sweden	Scientist
1970	Physiology	Bernard Katz	Germany	Scientist
1970	Literature	Aleksandr Solzhenitsyn	Russia	Linguist
1970	Economics	Paul Samuelson	USA	Economist
1970	Physiology	Julius Axelrod	USA	Scientist
1971	Physics	Dennis Gabor	Hungary	Scientist
1971	Chemistry	Gerhard Herzberg	Germany	Scientist
1971	Peace	Willy Brandt	Germany	Chancellor
1971	Literature	Pablo Neruda	Chile	Linguist
1971	Economics	Simon Kuznets	Russia	Economist
1978	Peace	Anwar al-Sadat	Egypt	President
1978	Peace	Menachem Begin	Israel	Prime Minister
1987	Chemistry	Donald J. Cram	USA	Scientist
1987	Chemistry	Jean-Marie Lehn	France	Scientist
1987	Physiology	Susumu Tonegawa	Japan	Scientist
1994	Economics	Reinhard Selten	Germany	Economist
1994	Peace	Yitzhak Rabin	Israel	PrimeMinister
1987	Physics	Johannes Georg Bednorz	Germany	Scientist
1987	Literature	Joseph Brodsky	Russia	Linguist
1987	Economics	Robert Solow	USA	Economist
1994	Literature	Kenzaburo Oe	Japan	

### Sample Solution:

```
SELECT *
FROM nobel_win
WHERE year=1970
AND subject NOT IN('Physiology','Economics');
```

Copy  
Output of the Query:

year	subject	winner	country	category
1970	Physics	Hannes Alfven	Sweden	Scientist
1970	Physics	Louis Neel	France	Scientist
1970	Chemistry	Luis Federico Leloir	France	Scientist
1970	Literature	Aleksandr Solzhenitsyn	Russia	Linguist

### SQL Basic Select Statement: Exercise-17 .

Write a SQL query to show the winners of a 'Physiology' prize in an early year before 1971 together with winners of a 'Peace' prize in a later year on and after the 1974.

Sample table: nobel\_win

YEAR	SUBJECT	WINNER	COUNTRY	CATEGORY
1970	Physics	Hannes Alfven	Sweden	Scientist
1970	Physics	Louis Neel	France	Scientist
1970	Chemistry	Lluís Federico Leloir	France	Scientist
1970	Physiology	Ulf von Euler	Sweden	Scientist
1970	Physiology	Bernard Katz	Germany	Scientist
1970	Literature	Aleksandr Solzhenitsyn	Russia	Linguist
1970	Economics	Paul Samuelson	USA	Economist
1970	Physiology	Julius Axelrod	USA	Scientist
1971	Physics	Dennis Gabor	Hungary	Scientist
1971	Chemistry	Gerhard Herzberg	Germany	Scientist
1971	Peace	Willy Brandt	Germany	Chancellor
1971	Literature	Pablo Neruda	Chile	Linguist
1971	Economics	Simon Kuznets	Russia	Economist
1978	Peace	Anwar al-Sadat	Egypt	President
1978	Peace	Menachem Begin	Israel	Prime Minister
1987	Chemistry	Donald J. Cram	USA	Scientist
1987	Chemistry	Jean-Marie Lehn	France	Scientist
1987	Physiology	Susumu Tonegawa	Japan	Scientist
1994	Economics	Reinhard Selten	Germany	Economist
1994	Peace	Yitzhak Rabin	Israel	Prime Minister
1987	Physics	Johannes Georg Bednorz	Germany	Scientist
1987	Literature	Joseph Brodsky	Russia	Linguist
1987	Economics	Robert Solow	USA	Economist
1994	Literature	Kenzaburo Oe	Japan	

### Sample Solution:

```
SELECT * FROM nobel_win WHERE (subject = 'Physiology' AND year < 1971) UNION (SELECT * FROM nobel_win WHERE (subject = 'Peace' AND year >= 1974));
```

Copy

Output of the Query:

year	subject	winner	country	category
1970	Physiology	Bernard Katz	Germany	Scientist
1970	Physiology	Julius Axelrod	USA	Scientist



1970	Physiology	Ulf von Euler	Sweden	Scientist
1978	Peace	Anwar al-Sadat	Egypt	President
1978	Peace	Menachem Begin	Israel	Prime Minister
1994	Peace	Yitzhak Rabin	Israel	Prime Minister

### SQL Basic Select Statement: Exercise-18 .

Write a SQL query to find all details of the prize won by Johannes Georg Bednorz.

*Sample table : nobel\_win*

YEAR	SUBJECT	WINNER	COUNTRY	CATEGORY
1970	Physics	Hannes Alfven	Sweden	Scientist
1970	Physics	Louis Neel	France	Scientist
1970	Chemistry	Lluis Federico Leloir	France	Scientist
1970	Physiology	Ulf von Euler	Sweden	Scientist
1970	Physiology	Bernard Katz	Germany	Scientist
1970	Literature	Aleksandr Solzhenitsyn	Russia	Linguist
1970	Economics	Paul Samuelson	USA	Economist
1970	Physiology	Julius Axelrod	USA	Scientist
1971	Physics	Dennis Gabor	Hungary	Scientist
1971	Chemistry	Gerhard Herzberg	Germany	Scientist
1971	Peace	Willy Brandt	Germany	Chancellor
1971	Literature	Pablo Neruda	Chile	Linguist
1971	Economics	Simon Kuznets	Russia	Economist
1978	Peace	Anwar al-Sadat	Egypt	President
1978	Peace	Menachem Begin	Israel	Prime Minister
1987	Chemistry	Donald J. Cram	USA	Scientist
1987	Chemistry	Jean-Marie Lehn	France	Scientist
1987	Physiology	Susumu Tonegawa	Japan	Scientist
1994	Economics	Reinhard Selten	Germany	Economist
1994	Peace	Yitzhak Rabin	Israel	Prime Minister
1987	Physics	Johannes Georg Bednorz	Germany	Scientist
1987	Literature	Joseph Brodsky	Russia	Linguist
1987	Economics	Robert Solow	USA	Economist
1994	Literature	Kenzaburo Oe	Japan	

### Sample Solution :

```
SELECT *
FROM nobel_win
WHERE winner='Johannes Georg Bednorz';
```

Copy  
Output of the Query:

year	subject	winner	country	category
------	---------	--------	---------	----------

1987 Physics Johannes Georg Bednorz Germany Scientist

### SQL Basic Select Statement: Exercise-19 .

Write a SQL query to find all the details of the nobel winners for the subject not started with the letter 'P' and arranged the list as the most recent comes first, then by name in order.

Sample table : nobel\_win

YEAR	SUBJECT	WINNER	COUNTRY	CATEGORY
-----	-----	-----	-----	-----
1970	Physics	Hannes Alfven	Sweden	Scientist
1970	Physics	Louis Neel	France	Scientist
1970	Chemistry	Lluis Federico Leloir	France	Scientist
1970	Physiology	Ulf von Euler	Sweden	Scientist
1970	Physiology	Bernard Katz	Germany	Scientist
1970	Literature	Aleksandr Solzhenitsyn	Russia	Linguist
1970	Economics	Paul Samuelson	USA	Economist
1970	Physiology	Julius Axelrod	USA	Scientist
1971	Physics	Dennis Gabor	Hungary	Scientist
1971	Chemistry	Gerhard Herzberg	Germany	Scientist
1971	Peace	Willy Brandt	Germany	Chancellor
1971	Literature	Pablo Neruda	Chile	Linguist
1971	Economics	Simon Kuznets	Russia	Economist
1978	Peace	Anwar al-Sadat	Egypt	President
1978	Peace	Menachem Begin	Israel	Prime Minister
1987	Chemistry	Donald J. Cram	USA	Scientist
1987	Chemistry	Jean-Marie Lehn	France	Scientist
1987	Physiology	Susumu Tonegawa	Japan	Scientist
1994	Economics	Reinhard Selten	Germany	Economist
1994	Peace	Yitzhak Rabin	Israel	Prime Minister
1987	Physics	Johannes Georg Bednorz	Germany	Scientist
1987	Literature	Joseph Brodsky	Russia	Linguist
1987	Economics	Robert Solow	USA	Economist
1994	Literature	Kenzaburo Oe	Japan	

### Sample Solution :

```
SELECT *
FROM nobel_win
WHERE subject NOT LIKE 'P%'
ORDER BY year DESC, winner;
```

Copy  
Output of the Query:

year	subject	winner	country	category
------	---------	--------	---------	----------

1994	Literature	Kenzaburo Oe	Japan	Linguist
1994	Economics	Reinhard Selten	Germany	Economist
1987	Chemistry	Donald J. Cram	USA	Scientist
1987	Chemistry	Jean-Marie Lehn	France	Scientist
1987	Literature	Joseph Brodsky	Russia	Linguist
1987	Economics	Robert Solow	USA	Economist
1971	Chemistry	Gerhard Herzberg	Germany	Scientist
1971	Literature	Pablo Neruda	Chile	Linguist
1971	Economics	Simon Kuznets	Russia	Economist
1970	Literature	Aleksandr Solzhenitsyn	Russia	Linguist
1970	Chemistry	Luis Federico Leloir	France	Scientist
1970	Economics	Paul Samuelson	USA	Economist

### SQL Basic Select Statement: Exercise-20 .

Write a SQL query to find all the details of 1970 winners by the ordered to subject and winner name; but the list contain the subject Economics and Chemistry at last.

*Sample table: nobel\_win*

YEAR	SUBJECT	WINNER	COUNTRY	CATEGORY
-----				
1970	Physics	Hannes Alfven	Sweden	Scientist
1970	Physics	Louis Neel	France	Scientist
1970	Chemistry	Lluis Federico Leloir	France	Scientist
1970	Physiology	Ulf von Euler	Sweden	Scientist
1970	Physiology	Bernard Katz	Germany	Scientist
1970	Literature	Aleksandr Solzhenitsyn	Russia	Linguist
1970	Economics	Paul Samuelson	USA	Economist
1970	Physiology	Julius Axelrod	USA	Scientist
1971	Physics	Dennis Gabor	Hungary	Scientist
1971	Chemistry	Gerhard Herzberg	Germany	Scientist
1971	Peace	Willy Brandt	Germany	Chancellor
1971	Literature	Pablo Neruda	Chile	Linguist
1971	Economics	Simon Kuznets	Russia	Economist
1978	Peace	Anwar al-Sadat	Egypt	President
1978	Peace	Menachem Begin	Israel	Prime Minister
1987	Chemistry	Donald J. Cram	USA	Scientist
1987	Chemistry	Jean-Marie Lehn	France	Scientist
1987	Physiology	Susumu Tonegawa	Japan	Scientist
1994	Economics	Reinhard Selten	Germany	Economist
1994	Peace	Yitzhak Rabin	Israel	PrimeMinister
1987	Physics	Johannes Georg Bednorz	Germany	Scientist
1987	Literature	Joseph Brodsky	Russia	Linguist
1987	Economics	Robert Solow	USA	Economist
1994	Literature	Kenzaburo Oe	Japan	

### Sample Solution :

```
SELECT *
FROM nobel_win
```

```

WHERE year=1970

ORDER BY

CASE

    WHEN subject IN ('Economics','Chemistry') THEN 1

    ELSE 0

END ASC,

subject,

winner;

```

Copy  
Output of the Query:

year	subject	winner	country	category
1970	Literature	Aleksandr Solzhenitsyn	Russia	Linguist
1970	Physics	Hannes Alfven	Sweden	Scientist
1970	Physics	Louis Neel	France	Scientist
1970	Physiology	Bernard Katz	Germany	Scientist
1970	Physiology	Julius Axelrod	USA	Scientist
1970	Physiology	Ulf von Euler	Sweden	Scientist
1970	Chemistry	Luis Federico Leloir	France	Scientist
1970	Economics	Paul Samuelson	USA	Economist

### SQL Basic Select Statement: Exercise-21 .

Write a SQL query to find all the products with a price between Rs.200 and Rs.600.

*Sample table:* item\_mast

PRO_ID	PRO_NAME	PRO_PRICE	PRO_COM
101	Mother Board	3200	15
102	Key Board	450	16
103	ZIP drive	250	14
104	Speaker	550	16
105	Monitor	5000	11
106	DVD drive	900	12
107	CD drive	800	12
108	Printer	2600	13
109	Refill cartridge	350	13
110	Mouse	250	12

**Sample Solution :**

```
SELECT * FROM item_mast
```

```
WHERE pro_price BETWEEN 200 AND 600;
```

Copy

Output of the Query:

pro_id	pro_name	pro_price	pro_com
102	Key Board	450.00	16
103	ZIP drive	250.00	14
104	Speaker	550.00	16
109	Refill cartridge	350.00	13
110	Mouse	250.00	12

### SQL Basic Select Statement: Exercise-22 .

Write a SQL query to calculate the average price of all products of the manufacturer which code is 16.

*Sample table: item\_mast*

PRO_ID	PRO_NAME	PRO_PRICE	PRO_COM
101	Mother Board	3200	15
102	Key Board	450	16
103	ZIP drive	250	14
104	Speaker	550	16
105	Monitor	5000	11
106	DVD drive	900	12
107	CD drive	800	12
108	Printer	2600	13
109	Refill cartridge	350	13
110	Mouse	250	12

### Sample Solution:

```
SELECT AVG(pro_price) FROM item_mast
```

```
WHERE pro_com=16;
```

Copy

Output of the Query:

```
avg
500.0000000000000000
```

### SQL Basic Select Statement: Exercise-23 .

Write a SQL query to find the item name and price in Rs.

*Sample table : item\_mast*

PRO_ID	PRO_NAME	PRO_PRICE	PRO_COM
101	Mother Board	3200	15
102	Key Board	450	16
103	ZIP drive	250	14
104	Speaker	550	16
105	Monitor	5000	11
106	DVD drive	900	12
107	CD drive	800	12
108	Printer	2600	13
109	Refill cartridge	350	13
110	Mouse	250	12

**Sample Solution :**

```
SELECT pro_name as "Item Name", pro_price AS "Price in Rs."
FROM item_mast;
```

Copy

Output of the Query:

```
Item Name      Price in Rs.
Mother Board   3200.00
Key Board      450.00
ZIP drive      250.00
Speaker        550.00
Monitor        5000.00
DVD drive      900.00
CD drive       800.00
Printer        2600.00
Refill cartridge 350.00
Mouse          250.00
```

**SQL Basic Select Statement: Exercise-24 .**

Write a SQL query to display the name and price of all the items with a price is equal or more than Rs.250, and the list contain the larger price first and then by name in ascending order.

*Sample table: item\_mast*

PRO_ID	PRO_NAME	PRO_PRICE	PRO_COM
101	Mother Board	3200	15
102	Key Board	450	16
103	ZIP drive	250	14
104	Speaker	550	16
105	Monitor	5000	11
106	DVD drive	900	12
107	CD drive	800	12
108	Printer	2600	13

109 Refill cartridge	350	13
110 Mouse	250	12

**Sample Solution:**

```
SELECT pro_name, pro_price
FROM item_mast
WHERE pro_price >= 250
ORDER BY pro_price DESC, pro_name;
```

Copy

Output of the Query:

```
pro_name      pro_price
Monitor        5000.00
Mother Board   3200.00
Printer        2600.00
DVD drive       900.00
CD drive       800.00
Speaker        550.00
Key Board       450.00
Refill cartridge 350.00
Mouse          250.00
ZIP drive       250.00
```

**SQL Basic Select Statement: Exercise-25 .**

Write a SQL query to display the average price of the items for each company, showing only the company code.

*Sample table: item\_mast*

PRO_ID	PRO_NAME	PRO_PRICE	PRO_COM
101	Mother Board	3200	15
102	Key Board	450	16
103	ZIP drive	250	14
104	Speaker	550	16
105	Monitor	5000	11
106	DVD drive	900	12
107	CD drive	800	12
108	Printer	2600	13
109	Refill cartridge	350	13
110	Mouse	250	12

**Sample Solution:**

```
SELECT AVG(pro_price), pro_com
```

```
FROM item_mast
```

```
GROUP BY pro_com;
```

Copy  
Output of the Query:

```
avg                pro_com
250.00000000000000 14
650.00000000000000 12
3200.00000000000000 15
5000.00000000000000 11
1475.00000000000000 13
500.00000000000000 16
```

### SQL Basic Select Statement: Exercise-26

Write a SQL query to find the name and price of the cheapest item(s).

*Sample table: item\_mast*

PRO_ID	PRO_NAME	PRO_PRICE	PRO_COM
101	Mother Board	3200	15
102	Key Board	450	16
103	ZIP drive	250	14
104	Speaker	550	16
105	Monitor	5000	11
106	DVD drive	900	12
107	CD drive	800	12
108	Printer	2600	13
109	Refill cartridge	350	13
110	Mouse	250	12

### Sample Solution:

```
SELECT pro_name, pro_price
FROM item_mast
WHERE pro_price =
(SELECT MIN(pro_price) FROM item_mast);
```

Copy  
Output of the Query:

```
pro_name    pro_price
```



```

ZIP drive      250.00
Mouse          250.00
  
```

### SQL Basic Select Statement: Exercise-27 .

Write a query in SQL to find the last name of all employees, without duplicates.

*Sample table: emp\_details*

EMP_IDNO	EMP_FNAME	EMP_LNAME	EMP_DEPT
127323	Michale	Robbin	57
526689	Carlos	Snares	63
843795	Enric	Dosio	57
328717	Jhon	Snares	63
444527	Joseph	Dosni	47
659831	Zanifer	Emily	47
847674	Kuleswar	Sitaraman	57
748681	Henrey	Gabriel	47
555935	Alex	Manuel	57
539569	George	Mardy	27
733843	Mario	Saule	63
631548	Alan	Snappy	27
839139	Maria	Foster	57

### Sample Solution:

```

SELECT DISTINCT emp_lname
FROM emp_details;
  
```

Copy  
Output of the Query:

```

emp_lname
Saule
Robbin
Sitaraman
Mardy
Foster
Emily
Manuel
Dosio
Gabriel
Snappy
Snares
Dosni
  
```

### SQL Basic Select Statement: Exercise-28

Write a query in SQL to find the data of employees whose last name is 'Snares'.

*Sample table: emp\_details*

EMP_IDNO	EMP_FNAME	EMP_LNAME	EMP_DEPT
127323	Michale	Robbin	57
526689	Carlos	Snares	63
843795	Enric	Dosio	57
328717	Jhon	Snares	63
444527	Joseph	Dosni	47
659831	Zanifer	Emily	47
847674	Kuleswar	Sitaraman	57
748681	Henrey	Gabriel	47
555935	Alex	Manuel	57
539569	George	Mardy	27
733843	Mario	Saule	63
631548	Alan	Snappy	27
839139	Maria	Foster	57

**Sample Solution :**

```
SELECT *
FROM emp_details
WHERE emp_lname= 'Snares';
```

Copy

Output of the Query:

emp_idno	emp_fname	emp_lname	emp_dept
526689	Carlos	Snares	63
328717	Jhon	Snares	63

SQL Basic Select Statement: Exercise-33 .

Write a query in SQL to display all the data of employees that work in the department 57.

*Sample table: emp\_details*

EMP_IDNO	EMP_FNAME	EMP_LNAME	EMP_DEPT
127323	Michale	Robbin	57
526689	Carlos	Snares	63
843795	Enric	Dosio	57
328717	Jhon	Snares	63
444527	Joseph	Dosni	47
659831	Zanifer	Emily	47
847674	Kuleswar	Sitaraman	57
748681	Henrey	Gabriel	47

555935	Alex	Manuel	57
539569	George	Mardy	27
733843	Mario	Saule	63
631548	Alan	Snappy	27
839139	Maria	Foster	57

**Sample Solution:**

```
SELECT *  
  
FROM emp_details  
  
WHERE emp_dept= 57;
```

Copy  
Output:

Output of the Query:

emp_idno	emp_fname	emp_lname	emp_dept
839139	Maria	Foster	57
127323	Michale	Robbin	57
843795	Enric	Dosio	57
847674	Kuleswar	Sitaraman	57
555935	Alex	Manuel	57