

Gramática LL:

1.  $Q \rightarrow \text{select } D \text{ from } T$
2.  $D \rightarrow \text{distinct } P \mid P$
3.  $P \rightarrow * \mid A$
4.  $A \rightarrow A_2 A_1$
5.  $A_1 \rightarrow , A \mid \epsilon$
6.  $A_2 \rightarrow \text{id } A_3$
7.  $A_3 \rightarrow . \text{id} \mid \epsilon$
8.  $T \rightarrow T_2 T_1$
9.  $T_1 \rightarrow , T \mid \epsilon$
10.  $T_2 \rightarrow \text{id } T_3$
11.  $T_3 \rightarrow \text{id} \mid \epsilon$

### Calculo de conjunto primero

$$P(Q) = \{\text{select}\}$$

$$P(D) = \{\text{distinct}, *, \text{id}\}$$

$$P(P) = \{*, \text{id}\}$$

$$P(A) = \{\text{id}\}$$

$$P(A_1) = \{', \epsilon\}$$

$$P(A_2) = \{\text{id}\}$$

$$P(A_3) = \{., \epsilon\}$$

$$P(T) = \{\text{id}\}$$

$$P(T_1) = \{', \epsilon\}$$

$$P(T_2) = \{\text{id}\}$$

$$P(T_3) = \{\text{id}, \epsilon\}$$

### Calculo de conjunto Siguiente

$$S(Q) = \{\$ \}$$

$$S(D) = \{\text{from}\}$$

$$S(P) = S(D) = \{\text{from}\}$$

$$S(A) = S(P) = S(D) = \{\text{from}\}$$

$$S(A_1) = S(A) = S(P) = S(D) = \{\text{from}\}$$

$$S(A_2) = P(A_1) \cup S(A_1) = \{', \epsilon\} \cup \{\text{from}\} = \{', \text{from}\}$$

$$S(A_3) = S(A_2) = \{', \text{from}\}$$

$$S(T) = S(Q) = \{\$ \}$$

$$S(T_1) = S(T) = S(Q) = \{\$ \}$$

$$S(T_2) = P(T_1) \cup S(T_1) = \{', \epsilon\} \cup \{\$ \}$$

$$S(T_3) = S(T_2) = \{', \epsilon\} \cup \{\$ \}$$

### Generacion de tabla de analisis sintactico

No terminal	select	distinct	from	id	*	.	,	\$
Q	$Q \rightarrow \text{select } D \text{ from } T$							
D		$D \rightarrow \text{distinct } P$		$D \rightarrow P$	$D \rightarrow P$			
P				$P \rightarrow A$	$P \rightarrow *$			
A				$A \rightarrow A_2 A_1$				
A <sub>1</sub>			$A_1 \rightarrow \epsilon$				$A_1 \rightarrow , A$	
A <sub>2</sub>				$A_2 \rightarrow \text{id } A_3$				
A <sub>3</sub>			$A_3 \rightarrow \epsilon$			$A_3 \rightarrow . \text{id}$		
T				$T \rightarrow T_2 T_1$				
T <sub>1</sub>							$T_1 \rightarrow , T$	$T_1 \rightarrow \epsilon$
T <sub>2</sub>				$T_2 \rightarrow \text{id } T_3$				
T <sub>3</sub>				$T_3 \rightarrow \text{id}$				$T_3 \rightarrow \epsilon$