

Tabla completa

SELECT * FROM proyectos

| | | | | numero | denominacion |
|--------------------------|---|---|---|--------|--|
| <input type="checkbox"/> |  |  |  | 5000 | Vamos Mexico |
| <input type="checkbox"/> |  |  |  | 5001 | Aztecon |
| <input type="checkbox"/> |  |  |  | 5002 | CIT Campeche |
| <input type="checkbox"/> |  |  |  | 5003 | Mexico sin ti no estamos completos |
| <input type="checkbox"/> |  |  |  | 5004 | Educando en Coahuila |
| <input type="checkbox"/> |  |  |  | 5005 | Infonavit Durango |
| <input type="checkbox"/> |  |  |  | 5006 | Reconstrucción del templo de Guadalupe |
| <input type="checkbox"/> |  |  |  | 5007 | Construcción de plaza Magnolias |
| <input type="checkbox"/> |  |  |  | 5008 | Televisa en acción |
| <input type="checkbox"/> |  |  |  | 5009 | Disco Atlantic |
| <input type="checkbox"/> |  |  |  | 5010 | Construcción de Hospital Infantil |
| <input type="checkbox"/> |  |  |  | 5011 | Remodelación de aulas del IPP |
| <input type="checkbox"/> |  |  |  | 5012 | Restauración de instalaciones del CEA |
| <input type="checkbox"/> |  |  |  | 5013 | Reparación de la plaza Sonora |
| <input type="checkbox"/> |  |  |  | 5014 | Remodelación de Soriana |
| <input type="checkbox"/> |  |  |  | 5015 | CIT Yucatan |
| <input type="checkbox"/> |  |  |  | 5016 | Ampliación de la carretera a la huasteca |
| <input type="checkbox"/> |  |  |  | 5017 | Reparación de la carretera del sol |
| <input type="checkbox"/> |  |  |  | 5018 | Tu cambio por la educación |
| <input type="checkbox"/> |  |  |  | 5019 | Queretaro limpio |




20 renglones

Selección

SELECT *

FROM proyectos

WHERE denominacion = 'Aztecon'

| | | | | numero | denominacion |
|--------------------------|---|---|---|--------|--------------|
| <input type="checkbox"/> |  |  |  | 5001 | Aztecon |

1 renglón

Proyección

SELECT numero, denominacion
FROM proyectos

| | numero | denominacion |
|---|--------|--|
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 5000 | Vamos Mexico |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 5001 | Aztecon |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 5002 | CIT Campeche |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 5003 | Mexico sin ti no estamos completos |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 5004 | Educando en Coahuila |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 5005 | Infonavit Durango |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 5006 | Reconstrucción del templo de Guadalupe |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 5007 | Construcción de plaza Magnolias |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 5008 | Televisa en acción |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 5009 | Disco Atlantic |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 5010 | Construcción de Hospital Infantil |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 5011 | Remodelación de aulas del IPP |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 5012 | Restauración de instalaciones del CEA |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 5013 | Reparación de la plaza Sonora |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 5014 | Remodelación de Soriana |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 5015 | CIT Yucatan |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 5016 | Ampliación de la carretera a la huasteca |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 5017 | Reparación de la carretera del sol |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 5018 | Tu cambio por la educación |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 5019 | Queretaro limpio |

20 renglones

Reunión natural

SELECT *
FROM proyectos P, entregan E
WHERE P.numero = E.numero

| numero | denominacion | clave | rfc | numero | fecha | cantidad |
|--------|--|-------|------------|--------|------------|----------|
| 5000 | Vamos Mexico | 1000 | AAAA800101 | 5000 | 2001-12-13 | 165 |
| 5000 | Vamos Mexico | 1200 | EEEE800101 | 5000 | 2003-03-15 | 177 |
| 5000 | Vamos Mexico | 1400 | AAAA800101 | 5000 | 1999-04-07 | 382 |
| 5001 | Aztecon | 1010 | BBBB800101 | 5001 | 1998-07-28 | 528 |
| 5001 | Aztecon | 1210 | FFFF800101 | 5001 | 2000-05-21 | 43 |
| 5001 | Aztecon | 1410 | BBBB800101 | 5001 | 2000-05-18 | 601 |
| 5002 | CIT Campeche | 1020 | CCCC800101 | 5002 | 2003-12-16 | 582 |
| 5002 | CIT Campeche | 1220 | GGGG800101 | 5002 | 2005-07-03 | 24 |
| 5002 | CIT Campeche | 1420 | CCCC800101 | 5002 | 2001-09-09 | 603 |
| 5003 | Mexico sin ti no estamos completos | 1030 | DDDD800101 | 5003 | 1998-01-12 | 202 |
| 5003 | Mexico sin ti no estamos completos | 1230 | HHHH800101 | 5003 | 1998-09-12 | 530 |
| 5003 | Mexico sin ti no estamos completos | 1430 | DDDD800101 | 5003 | 2005-04-30 | 576 |
| 5004 | Educando en Coahuila | 1040 | EEEE800101 | 5004 | 1999-12-18 | 263 |
| 5004 | Educando en Coahuila | 1150 | HHHH800101 | 5004 | 2002-11-14 | 453 |
| 5004 | Educando en Coahuila | 1240 | AAAA800101 | 5004 | 0000-00-00 | 152 |
| 5005 | Infonavit Durango | 1050 | FFFF800101 | 5005 | 2004-02-07 | 503 |
| 5005 | Infonavit Durango | 1140 | GGGG800101 | 5005 | 2000-06-30 | 583 |
| 5005 | Infonavit Durango | 1250 | BBBB800101 | 5005 | 2003-10-12 | 71 |
| 5005 | Infonavit Durango | 1300 | GGGG800101 | 5005 | 2004-02-28 | 521 |
| 5006 | Reconstrucción del templo de Guadalupe | 1060 | GGGG800101 | 5006 | 2004-09-29 | 324 |
| 5006 | Reconstrucción del templo de Guadalupe | 1130 | FFFF800101 | 5006 | 2000-04-13 | 562 |
| 5006 | Reconstrucción del templo de Guadalupe | 1260 | CCCC800101 | 5006 | 2001-04-09 | 460 |
| 5006 | Reconstrucción del templo de Guadalupe | 1290 | FFFF800101 | 5006 | 2002-01-09 | 279 |
| 5007 | Construcción de plaza Magnolias | 1070 | HHHH800101 | 5007 | 2006-11-21 | 2 |
| 5007 | Construcción de plaza Magnolias | 1120 | EEEE800101 | 5007 | 2003-11-21 | 692 |

25 renglones

Reunión con criterio específico

```
SELECT *  
FROM proyectos P, entregan E  
WHERE P.numero <= E.numero
```

| numero | denominacion | clave | rfc | numero | fecha | cantidad |
|--------|--------------|-------|------------|--------|------------|----------|
| 5000 | Vamos Mexico | 1000 | AAAA800101 | 5000 | 2001-12-13 | 165 |
| 5000 | Vamos Mexico | 1000 | AAAA800101 | 5019 | 1999-07-13 | 254 |
| 5000 | Vamos Mexico | 1010 | BBBB800101 | 5001 | 1998-07-28 | 528 |
| 5000 | Vamos Mexico | 1010 | BBBB800101 | 5018 | 1997-02-09 | 523 |
| 5000 | Vamos Mexico | 1020 | CCCC800101 | 5002 | 2003-12-16 | 582 |
| 5000 | Vamos Mexico | 1020 | CCCC800101 | 5017 | 2000-03-29 | 8 |
| 5000 | Vamos Mexico | 1030 | DDDD800101 | 5003 | 1998-01-12 | 202 |
| 5000 | Vamos Mexico | 1030 | DDDD800101 | 5016 | 2005-06-07 | 295 |
| 5000 | Vamos Mexico | 1040 | EEEE800101 | 5004 | 1999-12-18 | 263 |
| 5000 | Vamos Mexico | 1040 | EEEE800101 | 5015 | 1999-05-29 | 540 |
| 5000 | Vamos Mexico | 1050 | FFFF800101 | 5005 | 2004-02-07 | 503 |
| 5000 | Vamos Mexico | 1050 | FFFF800101 | 5014 | 2000-04-18 | 623 |
| 5000 | Vamos Mexico | 1060 | GGGG800101 | 5006 | 2004-09-29 | 324 |
| 5000 | Vamos Mexico | 1060 | GGGG800101 | 5013 | 2002-07-23 | 692 |
| 5000 | Vamos Mexico | 1070 | HHHH800101 | 5007 | 2006-11-21 | 2 |
| 5000 | Vamos Mexico | 1070 | HHHH800101 | 5012 | 2004-11-27 | 503 |
| 5000 | Vamos Mexico | 1080 | AAAA800101 | 5008 | 2005-04-03 | 86 |
| 5000 | Vamos Mexico | 1080 | AAAA800101 | 5011 | 2003-08-28 | 699 |
| 5000 | Vamos Mexico | 1090 | BBBB800101 | 5009 | 1997-03-13 | 73 |
| 5000 | Vamos Mexico | 1090 | BBBB800101 | 5010 | 1998-11-17 | 421 |
| 5000 | Vamos Mexico | 1100 | CCCC800101 | 5009 | 2000-12-07 | 466 |
| 5000 | Vamos Mexico | 1100 | CCCC800101 | 5010 | 2001-11-19 | 699 |
| 5000 | Vamos Mexico | 1110 | DDDD800101 | 5008 | 2005-06-03 | 337 |
| 5000 | Vamos Mexico | 1110 | DDDD800101 | 5011 | 2002-01-13 | 368 |
| 5000 | Vamos Mexico | 1120 | EEEE800101 | 5007 | 2003-11-21 | 692 |

25 renglones

Union

```
(SELECT *  
FROM entregan E  
WHERE clave = 1020)
```

UNION

```
(SELECT *  
FROM entregan E  
WHERE clave = 1100)
```

| clave | rfc | numero | fecha | cantidad |
|-------|------------|--------|------------|----------|
| 1020 | CCCC800101 | 5002 | 2003-12-16 | 582 |
| 1020 | CCCC800101 | 5017 | 2000-03-29 | 8 |
| 1100 | CCCC800101 | 5009 | 2000-12-07 | 466 |
| 1100 | CCCC800101 | 5010 | 2001-11-19 | 699 |

4 renglones

Intersección

(SELECT clave FROM entregan WHERE numero=5001)

INTERSECT

(SELECT clave FROM entregan WHERE numero=5018)

| clave |
|-------|
| 1010 |

1 Renglón

Diferencia

(SELECT * FROM entregan)

EXCEPT

(SELECT * FROM entregan WHERE clave=1000)

| clave | rfc | numero | fecha | cantidad |
|-------|------------|--------|------------|----------|
| 1010 | BBBB800101 | 5001 | 1998-07-28 | 528 |
| 1010 | BBBB800101 | 5018 | 1997-02-09 | 523 |
| 1020 | CCCC800101 | 5002 | 2003-12-16 | 582 |
| 1020 | CCCC800101 | 5017 | 2000-03-29 | 8 |
| 1030 | DDDD800101 | 5003 | 1998-01-12 | 202 |
| 1030 | DDDD800101 | 5016 | 2005-06-07 | 295 |
| 1040 | EEEE800101 | 5004 | 1999-12-18 | 263 |
| 1040 | EEEE800101 | 5015 | 1999-05-29 | 540 |
| 1050 | FFFF800101 | 5005 | 2004-02-07 | 503 |
| 1050 | FFFF800101 | 5014 | 2000-04-18 | 623 |
| 1060 | GGGG800101 | 5006 | 2004-09-29 | 324 |
| 1060 | GGGG800101 | 5013 | 2002-07-23 | 692 |
| 1070 | HHHH800101 | 5007 | 2006-11-21 | 2 |
| 1070 | HHHH800101 | 5012 | 2004-11-27 | 503 |
| 1080 | AAAA800101 | 5008 | 2005-04-03 | 86 |
| 1080 | AAAA800101 | 5011 | 2003-08-28 | 699 |
| 1090 | BBBB800101 | 5009 | 1997-03-13 | 73 |
| 1090 | BBBB800101 | 5010 | 1998-11-17 | 421 |
| 1100 | CCCC800101 | 5009 | 2000-12-07 | 466 |
| 1100 | CCCC800101 | 5010 | 2001-11-19 | 699 |
| 1110 | DDDD800101 | 5008 | 2005-06-03 | 337 |
| 1110 | DDDD800101 | 5011 | 2002-01-13 | 368 |
| 1120 | EEEE800101 | 5007 | 2003-11-21 | 692 |
| 1120 | EEEE800101 | 5012 | 1997-08-05 | 215 |
| 1130 | FFFF800101 | 5006 | 2000-04-13 | 562 |

24 renglones

Producto cartesiano

SELECT *
FROM entregan E, proyectos P

| clave | rfc | numero | fecha | cantidad | numero | denominacion |
|-------|------------|--------|------------|----------|--------|--|
| 1000 | AAAA800101 | 5000 | 2001-12-13 | 165 | 5000 | Vamos Mexico |
| 1000 | AAAA800101 | 5000 | 2001-12-13 | 165 | 5001 | Aztecon |
| 1000 | AAAA800101 | 5000 | 2001-12-13 | 165 | 5002 | CIT Campeche |
| 1000 | AAAA800101 | 5000 | 2001-12-13 | 165 | 5003 | Mexico sin ti no estamos completos |
| 1000 | AAAA800101 | 5000 | 2001-12-13 | 165 | 5004 | Educando en Coahuila |
| 1000 | AAAA800101 | 5000 | 2001-12-13 | 165 | 5005 | Infonavit Durango |
| 1000 | AAAA800101 | 5000 | 2001-12-13 | 165 | 5006 | Reconstrucción del templo de Guadalupe |
| 1000 | AAAA800101 | 5000 | 2001-12-13 | 165 | 5007 | Construcción de plaza Magnolias |
| 1000 | AAAA800101 | 5000 | 2001-12-13 | 165 | 5008 | Televisa en acción |
| 1000 | AAAA800101 | 5000 | 2001-12-13 | 165 | 5009 | Disco Atlantic |
| 1000 | AAAA800101 | 5000 | 2001-12-13 | 165 | 5010 | Construcción de Hospital Infantil |
| 1000 | AAAA800101 | 5000 | 2001-12-13 | 165 | 5011 | Remodelación de aulas del IPP |
| 1000 | AAAA800101 | 5000 | 2001-12-13 | 165 | 5012 | Restauración de instalaciones del CEA |
| 1000 | AAAA800101 | 5000 | 2001-12-13 | 165 | 5013 | Reparación de la plaza Sonora |
| 1000 | AAAA800101 | 5000 | 2001-12-13 | 165 | 5014 | Remodelación de Soriana |
| 1000 | AAAA800101 | 5000 | 2001-12-13 | 165 | 5015 | CIT Yucatan |
| 1000 | AAAA800101 | 5000 | 2001-12-13 | 165 | 5016 | Ampliación de la carretera a la huasteca |
| 1000 | AAAA800101 | 5000 | 2001-12-13 | 165 | 5017 | Reparación de la carretera del sol |
| 1000 | AAAA800101 | 5000 | 2001-12-13 | 165 | 5018 | Tu cambio por la educación |
| 1000 | AAAA800101 | 5000 | 2001-12-13 | 165 | 5019 | Queretaro limpio |
| 1000 | AAAA800101 | 5019 | 1999-07-13 | 254 | 5000 | Vamos Mexico |
| 1000 | AAAA800101 | 5019 | 1999-07-13 | 254 | 5001 | Aztecon |
| 1000 | AAAA800101 | 5019 | 1999-07-13 | 254 | 5002 | CIT Campeche |
| 1000 | AAAA800101 | 5019 | 1999-07-13 | 254 | 5003 | Mexico sin ti no estamos completos |
| 1000 | AAAA800101 | 5019 | 1999-07-13 | 254 | 5004 | Educando en Coahuila |

25 renglones

Construccion de consultas a partit de una especificacion

SELECT M.descripcion
FROM entregan E, materiales M
WHERE fecha BETWEEN '01/01/2000' AND '12/31/2000'

| | descripcion |
|---|---------------------|
| <input type="checkbox"/> Edit Copy Delete | Varilla 3/16 |
| <input type="checkbox"/> Edit Copy Delete | Varilla 4/32 |
| <input type="checkbox"/> Edit Copy Delete | Varilla 3/17 |
| <input type="checkbox"/> Edit Copy Delete | Varilla 4/33 |
| <input type="checkbox"/> Edit Copy Delete | Varilla 3/18 |
| <input type="checkbox"/> Edit Copy Delete | Varilla 4/34 |
| <input type="checkbox"/> Edit Copy Delete | Varilla 3/19 |
| <input type="checkbox"/> Edit Copy Delete | Varilla 4/35 |
| <input type="checkbox"/> Edit Copy Delete | Ladrillos rojos |
| <input type="checkbox"/> Edit Copy Delete | Ladrillos grises |
| <input type="checkbox"/> Edit Copy Delete | Block |
| <input type="checkbox"/> Edit Copy Delete | Megablock |
| <input type="checkbox"/> Edit Copy Delete | Sillar rosa |
| <input type="checkbox"/> Edit Copy Delete | Sillar gris |
| <input type="checkbox"/> Edit Copy Delete | Cantera blanca |
| <input type="checkbox"/> Edit Copy Delete | Cantera gris |
| <input type="checkbox"/> Edit Copy Delete | Cantera rosa |
| <input type="checkbox"/> Edit Copy Delete | Cantera amarilla |
| <input type="checkbox"/> Edit Copy Delete | Recubrimiento P1001 |
| <input type="checkbox"/> Edit Copy Delete | Recubrimiento P1010 |
| <input type="checkbox"/> Edit Copy Delete | Recubrimiento P1019 |
| <input type="checkbox"/> Edit Copy Delete | Recubrimiento P1028 |
| <input type="checkbox"/> Edit Copy Delete | Recubrimiento P1037 |
| <input type="checkbox"/> Edit Copy Delete | Cemento |
| <input type="checkbox"/> Edit Copy Delete | Arena |

45 renglones

Uso del calificador distinct

```
SELECT DISTINCT M.descripcion
FROM entregan E, materiales M
WHERE fecha BETWEEN '01/01/2000' AND '12/31/2000'
```

| | descripcion |
|---|---------------------|
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Varilla 3/16 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Varilla 4/32 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Varilla 3/17 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Varilla 4/33 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Varilla 3/18 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Varilla 4/34 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Varilla 3/19 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Varilla 4/35 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Ladrillos rojos |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Ladrillos grises |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Block |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Megablock |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Sillar rosa |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Sillar gris |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Cantera blanca |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Cantera gris |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Cantera rosa |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Cantera amarilla |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Recubrimiento P1001 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Recubrimiento P1010 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Recubrimiento P1019 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Recubrimiento P1028 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Recubrimiento P1037 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Cemento |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Arena |

24 renglones

Ordenamientos

```
SELECT DISTINCT M.descripcion
FROM entregan E, materiales M
WHERE fecha BETWEEN '01/01/2000' AND '12/31/2000'
ORDER BY fecha DESC
```

| | descripcion |
|---|---------------------|
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Varilla 4/32 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Varilla 4/33 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Varilla 4/34 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Varilla 4/35 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Ladrillos grises |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Megablock |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Sillar gris |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Cantera gris |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Cantera amarilla |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Recubrimiento P1010 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Recubrimiento P1028 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Cemento |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Grava |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Tezontle |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Tuberia 3.5 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Tuberia 3.6 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Tuberia 3.7 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Tuberia 3.8 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Pintura B1020 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Pintura B1021 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Pintura B1022 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Varilla 3/16 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Varilla 3/17 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Varilla 3/18 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | Varilla 3/19 |

24 renglones

Uso de expresiones

```
SELECT m.descripcion,  
       SUM(e.cantidad * (m.precio - m.impuesto)) AS total_con_impuesto  
FROM entregan e  
JOIN materiales m ON e.clave = m.clave  
GROUP BY m.descripcion  
ORDER BY m.descripcion;
```

| descripcion | total_con_impuesto |
|---------------------|--------------------|
| Arena | 93240 |
| Block | 31455 |
| Cantera amarilla | 48231 |
| Cantera blanca | 144360 |
| Cantera gris | 992079 |
| Cantera rosa | 518868 |
| Cemento | 227340 |
| Grava | 68580 |
| Gravilla | 88371 |
| Ladrillos grises | 15561 |
| Ladrillos rojos | 35325 |
| Megablock | 25380 |
| Pintura B1020 | 69637.5 |
| Pintura B1021 | 210600 |
| Pintura B1022 | 66262.5 |
| Pintura C1010 | 70762.5 |
| Pintura C1011 | 673942.5 |
| Pintura C1012 | 99112.5 |
| Recubrimiento P1001 | 133380 |
| Recubrimiento P1010 | 89100 |
| Recubrimiento P1019 | 164592 |
| Recubrimiento P1028 | 25425 |
| Recubrimiento P1037 | 171864 |
| Sillar gris | 61875 |
| Sillar rosa | 81630 |

24 renglones

Operadores de cadena

```
SELECT descripcion  
FROM materiales M  
WHERE descripcion LIKE 'var%'
```

| | descripcion |
|---|--------------|
| <input type="checkbox"/> Edit Copy Delete | Varilla 3/16 |
| <input type="checkbox"/> Edit Copy Delete | Varilla 4/32 |
| <input type="checkbox"/> Edit Copy Delete | Varilla 3/17 |
| <input type="checkbox"/> Edit Copy Delete | Varilla 4/33 |
| <input type="checkbox"/> Edit Copy Delete | Varilla 3/18 |
| <input type="checkbox"/> Edit Copy Delete | Varilla 4/34 |
| <input type="checkbox"/> Edit Copy Delete | Varilla 3/19 |
| <input type="checkbox"/> Edit Copy Delete | Varilla 4/35 |

8 renglones

Operadores lógicos

```
SELECT rfc,Cantidad, Fecha,Numero
FROM entregan
WHERE Numero Between 5000 and 5010 AND
Exists (SELECT RFC
FROM proveedores
WHERE RazonSocial LIKE 'La%' and entregan.RFC = proveedores.rfc )
```

| | rfc | Cantidad | Fecha | Numero |
|---|------------|----------|------------|--------|
| <input type="checkbox"/>  Edit  Copy  Delete | AAAA800101 | 165 | 2001-12-13 | 5000 |
| <input type="checkbox"/>  Edit  Copy  Delete | AAAA800101 | 86 | 2005-04-03 | 5008 |
| <input type="checkbox"/>  Edit  Copy  Delete | AAAA800101 | 152 | 0000-00-00 | 5004 |
| <input type="checkbox"/>  Edit  Copy  Delete | AAAA800101 | 382 | 1999-04-07 | 5000 |
| <input type="checkbox"/>  Edit  Copy  Delete | AAAA800101 | 116 | 2005-04-21 | 5010 |
| <input type="checkbox"/>  Edit  Copy  Delete | CCCC800101 | 582 | 2003-12-16 | 5002 |
| <input type="checkbox"/>  Edit  Copy  Delete | CCCC800101 | 466 | 2000-12-07 | 5009 |
| <input type="checkbox"/>  Edit  Copy  Delete | CCCC800101 | 699 | 2001-11-19 | 5010 |
| <input type="checkbox"/>  Edit  Copy  Delete | CCCC800101 | 460 | 2001-04-09 | 5006 |
| <input type="checkbox"/>  Edit  Copy  Delete | CCCC800101 | 631 | 2001-07-28 | 5009 |
| <input type="checkbox"/>  Edit  Copy  Delete | CCCC800101 | 603 | 2001-09-09 | 5002 |
| <input type="checkbox"/>  Edit  Copy  Delete | CCCC800101 | 278 | 1999-05-05 | 5008 |

11 renglones

¿Que hace la consulta? Muestra el rfc, cantidad, fecha y numero de la tabla entregan, donde lo numero se encuentre entre 5000 y 5010, además de una subconsulta que valida si existe un proveedor cuya razón social comienza con "La" y cuyo RFC coincide con el RFC en la tabla entregan

```
SELECT rfc, Cantidad, Fecha, Numero
FROM entregan
WHERE Numero BETWEEN 5000 AND 5010
AND rfc NOT IN (
    SELECT RFC
    FROM proveedores
    WHERE RazonSocial LIKE 'La%')
```


Modificando la estructura de una tabla existente

ALTER TABLE materiales ADD PorcentajImpuesto NUMERIC(6,2)

UPDATE materiales SET PorcentajImpuesto = 2*clave/1000

| clave | rfc | numero | fecha | descripcion | importe_total |
|-------|------------|--------|------------|------------------|--------------------|
| 1000 | AAAA800101 | 5019 | 1999-07-13 | Varilla 3/16 | 27940.000000000004 |
| 1010 | BBBB800101 | 5001 | 1998-07-28 | Varilla 4/32 | 67702.8 |
| 1010 | BBBB800101 | 5018 | 1997-02-09 | Varilla 4/32 | 67061.675 |
| 1020 | CCCC800101 | 5002 | 2003-12-16 | Varilla 3/17 | 85495.79999999999 |
| 1020 | CCCC800101 | 5017 | 2000-03-29 | Varilla 3/17 | 1175.1999999999998 |
| 1030 | DDDD800101 | 5003 | 1998-01-12 | Varilla 4/33 | 33537.05 |
| 1030 | DDDD800101 | 5016 | 2005-06-07 | Varilla 4/33 | 48977.375 |
| 1040 | EEEE800101 | 5004 | 1999-12-18 | Varilla 3/18 | 48812.799999999996 |
| 1040 | EEEE800101 | 5015 | 1999-05-29 | Varilla 3/18 | 100224 |
| 1050 | FFFF800101 | 5005 | 2004-02-07 | Varilla 4/34 | 103429.375 |
| 1050 | FFFF800101 | 5014 | 2000-04-18 | Varilla 4/34 | 128104.375 |
| 1060 | GGGG800101 | 5006 | 2004-09-29 | Varilla 3/19 | 73256.4 |
| 1060 | GGGG800101 | 5013 | 2002-07-23 | Varilla 3/19 | 156461.19999999998 |
| 1070 | HHHH800101 | 5007 | 2006-11-21 | Varilla 4/35 | 494.05 |
| 1070 | HHHH800101 | 5012 | 2004-11-27 | Varilla 4/35 | 124253.575 |
| 1080 | AAAA800101 | 5008 | 2005-04-03 | Ladrillos rojos | 4515 |
| 1080 | AAAA800101 | 5011 | 2003-08-28 | Ladrillos rojos | 36697.5 |
| 1090 | BBBB800101 | 5009 | 1997-03-13 | Ladrillos grises | 2644.4249999999997 |
| 1090 | BBBB800101 | 5010 | 1998-11-17 | Ladrillos grises | 15250.724999999997 |
| 1100 | CCCC800101 | 5009 | 2000-12-07 | Block | 14399.400000000001 |
| 1100 | CCCC800101 | 5010 | 2001-11-19 | Block | 21599.100000000002 |
| 1110 | DDDD800101 | 5008 | 2005-06-03 | Megablock | 14019.2 |
| 1110 | DDDD800101 | 5011 | 2002-01-13 | Megablock | 15308.800000000001 |
| 1120 | EEEE800101 | 5007 | 2003-11-21 | Sillar rosa | 76120.00000000001 |

24 renglones

```
SELECT e.clave, e.rfc, e.numero, e.fecha,
       m.descripcion,
       e.cantidad * (m.precio * (1 + (m.impuesto / 100))) AS importe_total
FROM entregan e
JOIN materiales m ON e.clave = m.clave;
```