

Solució Problemes SQL ESPECTACLES

1. SELECT Nom, Interpret
FROM Espectacles
WHERE Tipus = 'Musical' AND
Data_Inicial = Data_Final
ORDER BY Nom, Interpret;
2. SELECT DISTINCT Codi_Espectacle, Data,DNI_Client
FROM Entrades
WHERE Data BETWEEN TO_DATE('01/03/2012','dd/mm/yyyy') AND
TO_DATE('31/03/2012','dd/mm/yyyy') AND
Codi_Recinte IN (101, 103, 105)
ORDER BY Codi_Espectacle, Data;
3. SELECT Codi, Nom, Data_Final – Data_Inicial + 1 As Num_Dies
FROM Espectacles
WHERE Tipus='Teatre' And
((Data_Inicial Between TO_DATE('01/01/2011','dd/mm/yyyy') AND
TO_DATE('31/12/2011','dd/mm/yyyy') AND
Data_Final Between TO_DATE('01/01/2011', 'dd/mm/yyyy') AND
TO_DATE('31/12/2011', 'dd/mm/yyyy'))
OR
(Data_Inicial<TO_DATE('01/01/2012','dd/mm/yyyy') AND
Data_Final>TO_DATE('31/12/2011','dd/mm/yyyy'))
)
ORDER BY Num_Dies DESC;

MSACCESS:

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SELECT Codi, Nom, Data_Final – Data_Inicial + 1 As Num_Dies
FROM Espectacles
WHERE Tipus = 'Teatre' AND
 ((Data_Inicial BETWEEN #1/1/2011# AND #31/12/2011# AND
 Data_Final BETWEEN #1/1/2011# AND #31/12/2011#) OR
 (Data_Inicial < #1/1/2011# AND
 Data_Final > #31/12/2011#)
)
ORDER BY Num_Dies DESC;

4. SELECT DISTINCT RP.Data, TO_CHAR(RP.Hora,'HH24:MI:SS') AS Hora
FROM Espectacles EC, Representacions RP
WHERE EC.Nom = 'La extraña pareja' AND
 EC.Codi = RP.Codi_Espectacle
ORDER BY RP.Data;

5. SELECT EC.Nom, EC.Tipus, EC.Interpret, RC.Nom, RC.Ciutat
FROM Espectacles EC, Recintes RC
WHERE RC.Ciutat <> 'Barcelona' AND
 RC.Codi = EC.Codi_Recinte
ORDER BY RC.Ciutat, EC.Nom, EC.Tipus;

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6. SELECT ZR.Zona, ZR.Capacitat, PE.Preu  
FROM Espectacles EC, Preus\_Espectacles PE, Zones\_Recinte ZR  
WHERE EC.Nom = 'La extraña pareja' AND  
EC.Codi = PE.Codi\_Espectacle AND  
PE.Codi\_Recinte = ZR.Codi\_Recinte AND  
PE.Zona = ZR.Zona;
7. SELECT RC.Ciutat, EC.Nom, EC.Data\_Inicial, EC.Data\_Final  
FROM Espectacles EC, Recintes RC  
WHERE EC.Interpret = 'El Tricicle' AND  
EC.Codi\_Recinte = RC.Codi;
8. SELECT DISTINCT ED.Nom, ED.Cognoms, ED.Adreça  
FROM Espectadors ED, Entrades EN, Espectacles EC  
WHERE EC.Nom='West Side Story' AND  
EC.Codi=EN.Codi\_Espectacle AND  
EN.Data=TO\_DATE('20/11/2011', 'dd/mm/yyyy') AND  
EN.Hora=TO\_DATE('30/12/1899 21:00:00', 'DD/MM/YYYY HH24:MI:SS')  
AND  
EN.DNI\_Client=ED.DNI  
ORDER BY ED.Cognoms, ED.Adreça;

**MSACCESS:**

- SELECT ED.Nom, ED.Cognoms, ED.Adreça  
FROM Espectadors ED, Entrades EN, Espectacles EC  
WHERE EC.Nom = 'West Side Story' AND  
EC.Codi = EN.Codi\_Espectacle AND  
EN.Data = #20/11/2011# AND  
EN.Hora = #21:00# AND  
EN.DNI\_Client = ED.DNI  
ORDER BY ED.Cognoms, ED.Adreça;
9. SELECT DISTINCT EC.Nom  
FROM Entrades EN, Espectacles EC, Espectadors ED  
WHERE ED.Ciutat = 'Cerdanyola' AND  
ED.DNI = EN.DNI\_Client AND  
EN.Data=TO\_DATE('23/02/2012', 'dd/mm/yyyy') AND  
EN.Codi\_Espectacle = EC.Codi;
10. SELECT S.Zona, S.Fila, S.Numero  
FROM Espectacles EC, Seients S  
WHERE EC.Nom = 'Hamlet' AND  
EC.Codi\_Recinte = S.Codi\_Recinte  
ORDER BY S.Zona, S.Fila, S.Numero;
11. SELECT EC.Nom, EN.Data, TO\_CHAR(EN.Hora, 'HH24:MI:SS'),  
EN.Zona, EN.Fila, EN.Numero  
FROM Entrades EN, Espectadors ED, Espectacles EC, Recintes RC  
WHERE ED.Ciutat = 'Barcelona' AND  
EN.DNI\_Client = ED.DNI AND  
EN.Data Between TO\_DATE('01/02/2012', 'dd/mm/yyyy') AND  
TO\_DATE('28/02/2012', 'dd/mm/yyyy') AND  
RC.Codi = EN.Codi\_Recinte AND  
RC.Nom = 'Romea' AND  
EC.Codi\_Recinte = RC.Codi AND  
EN.Codi\_Espectacle = EC.Codi;

12. SELECT DISTINCT EC2.Nom  
FROM Espectacles EC1, Espectacles EC2,  
WHERE E1.Nom = 'L''auca del Senyor Esteve' AND  
EC1.Codi\_Recinte = EC2.Codi\_Recinte AND  
EC2.Nom <> 'L''auca del Senyor Esteve';
13. SELECT EC2.Nom  
FROM Espectacles EC1, Espectacles EC2  
WHERE EC1.Nom = 'Cianur i puntes de coixí' AND  
EC1.Codi\_Recinte = EC2.Codi\_Recinte AND  
EC2.Data\_Inicial > EC1.Data\_Inicial;
14. SELECT EC.Nom, RC.Nom, EN.Data, TO\_CHAR(EN.Hora,'HH24:MI:SS') AS Hora,  
FROM EN.Zona, EN.Fila, EN.Numero, PE.Preu, ED.Nom, ED.Cognoms  
Espectadors ED, Entrades EN, Recintes RC, Preus\_Espectacles PE,  
Espectacles EC  
WHERE ED.Ciutat<>'Barcelona' AND  
ED.DNI=EN.DNI\_Client AND  
EN.Codi\_Recinte=RC.Codi AND  
RC.Ciutat='Barcelona' AND  
EN.Codi\_Espectacle=PE.Codi\_Espectacle AND  
EN.Codi\_Recinte=PE.Codi\_Recinte AND  
EN.Zona=PE.Zona AND  
EC.Codi=PE.Codi\_Espectacle AND  
RC.Codi=EC.Codi\_Recinte AND  
EN.Codi\_Espectacle=EC.Codi  
ORDER BY RC.Nom, EC.Nom, PE.Preu;
15. SELECT COUNT (\*) AS Num\_Espectacles  
FROM Espectacles EC, Recintes RC  
WHERE EC.Codi\_Recinte=RC.Codi AND  
RC.Ciutat='Girona' AND  
( EC.Data\_Inicial Between TO\_DATE('01/01/2011', 'dd/mm/yy') AND  
TO\_DATE('31/12/2011', 'dd/mm/yy') OR  
EC.Data\_Final Between TO\_DATE('01/01/2011','dd/mm/yyyy') AND  
TO\_DATE('31/12/2011', 'dd/mm/yyyy')  
) OR  
( EC.Data\_Inicial<TO\_DATE('01/01/2011', 'dd/mm/yyyy') AND  
EC.Data\_Final>TO\_DATE('31/12/2011', 'dd/mm/yyyy')  
);
16. SELECT SUM (ZR.Capacitat) A Capacitat\_Total  
FROM Recintes RC, Zones\_Recinte ZR  
WHERE RC.Codi = ZR.Codi\_Recinte AND  
RC.Nom = 'Romea';
- SELECT COUNT(\*) AS Cap\_Total  
FROM Recintes RC, Seients S  
WHERE RC.Nom = 'Romea' AND  
RC.Codi=S.Codi\_Recinte;

17. SELECT MAX (PE.Preu) AS Preu\_Max, MIN (PE.Preu) AS Preu\_Min  
FROM Espectacles EC, Preus\_Espectacles PE  
WHERE EC.Codi = PE.Codi\_Espectacle AND  
EC.Nom = 'Jazz a la tardor';
18. SELECT SUM (PE.Preu) AS Preu\_Total  
FROM Espectacles EC, Preus\_Espectacles PE, Entrades EN, Espectadors ED  
WHERE ED.Compte = '1111-111-11-1234567890' AND  
EN.DNI\_Client = ED.DNI AND  
EN.Codi\_Espectacle = EC.Codi AND  
EC.Nom = 'Entre Tres' AND  
EC.Codi = PE.Codi\_Espectacle AND  
EN.Zona = PE.Zona AND  
PE.Codi\_Recinte = EN.Codi\_Recinte;
19. SELECT SUM (Preu) AS Recaptació  
FROM Espectacles EC, Preus\_Espectacles PE, Seients S  
WHERE EC.Nom = 'Entre Tres' AND  
PE.Codi\_Espectacle = EC.Codi AND  
S.Zona = PE.Zona AND  
S.Codi\_Recinte = PE.Codi\_Recinte AND  
S.Codi\_Recinte = EC.Codi\_Recinte;
- SELECT SUM (ZR.Capacitat\* PE.Preu) AS Recaptació  
FROM Espectacles EC, Preus\_Espectacles PE, Zones Recinte ZR  
WHERE EC.Nom = 'Entre Tres' AND  
EC.Codi = PE.Codi\_Espectacle AND  
PE.Codi\_Recinte = ZR.Codi\_Recinte AND  
PE.Zona = ZR.Zona;
20. SELECT SUM (PE.Preu) AS Recaptació  
FROM Espectacles EC, Preus\_Espectacles PE, Entrades EN  
WHERE EC.Nom = 'Hamlet' AND  
EN.Codi\_Espectacle = EC.Codi AND  
EN.Data = TO\_DATE('31/03/2012', 'dd/mm/yyyy')  
PE.Zona = EN.Zona AND  
PE.Codi\_Recinte = EN.Codi\_Recinte AND  
EC.Codi=PE.Codi\_Espectacle;
21. SELECT SUM (PE.Preu) / COUNT (\*) AS Preu\_Mig [ AVG(PE.Preu) ]  
FROM Espectacles EC, Preus\_Espectacles PE  
WHERE EC.Nom = 'La extraña pareja' AND  
PE.Codi\_Espectacle = EC.Codi;
22. SELECT COUNT (\*) AS Num\_Espectadors  
FROM Entrades EN, Espectacles EC  
WHERE EC.Nom = 'Mar i Cel' AND  
EN.Codi\_Espectacle = EC.Codi;
23. SELECT COUNT (\*) / COUNT (DISTINCT EN.Data) AS Mitjana  
FROM Espectacles EC, Entrades EN  
WHERE EC.Nom = 'West Side Story' AND  
EN.Codi\_Espectacle = EC.Codi;

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24. SELECT COUNT (*) As Num_Rep, COUNT (DISTINCT EC.Codi) As Num_Esp,
 Num_Rep / Num_Esp As NMig
 FROM Espectacles EC, Recintes RC, Representacions RP
 WHERE RC.Nom = 'Municipal' AND
 RC.Ciutat = 'Girona' AND
 EC.Codi_Recinte = RC.Codi AND
 RP.Codi_Espectacle = EC.Codi AND
 RP.Data BETWEEN TO_DATE('1/1/2011','dd/mm/yyyy') AND
 TO_DATE('31/12/2011','dd/mm/yyyy');

25. SELECT COUNT (DISTINCT RC.Codi)
 FROM Espectacles EC, Recintes RC
 WHERE EC.Interpret = 'La Joventut de la Faràndula' AND
 RC.Codi = EC.Codi_Recinte;

 SELECT COUNT(DISTINCT Codi_Recinte)
 FROM Espectacles
 WHERE Interpret = 'La Joventut de la Faràndula';

26. SELECT EN.Data, TO_CHAR(EN.Hora,'HH24:MI:SS'),COUNT (*) As Num_Entrades
 FROM Espectacles EC, Entrades EN
 WHERE EC.Nom = 'El Màgic d'Oz' AND
 EN.Codi_Espectacle = EC.Codi

 GROUP BY EN.Data, EN.Hora
 ORDER BY Num_Entrades;

27. SELECT EC.Nom, EC.Data_Inicial, EC.Data_Final, MAX (PE.Preu) AS Preu_Max,
 MIN (PE.Preu) AS Preu_Min
 FROM Recintes RC, Espectacles EC, Preus_Espectacles PE
 WHERE RC.Nom = 'Liceu' AND
 EC.Codi_Recinte = RC.Codi AND
 PE.Codi_Espectacle = EC.Codi AND
 PE.Codi_Recinte = EC.Codi_Recinte

 GROUP BY EC.Nom, EC.Data_Inicial, EC.Data_Final
 ORDER BY EC.Data_Inicial;

28. SELECT EC.Nom, EC.Data_Final - EC.Data_Inicial + 1, AS Num_Rep,
 COUNT (*) AS Num_Rep
 FROM Recintes RC, Espectacles EC, Representacions RP
 WHERE RC.Nom = 'Palau de la Música' AND
 RC.Codi = EC.Codi_Recinte AND
 EC.Codi = RP.Codi_Espectacle

 GROUP BY EC.Nom, EC.Data_Inicial, EC.Data_Final
 ORDER BY Num_Rep DESC;

29. SELECT EN.Zona, COUNT (*) / COUNT (DISTINCT EN.Data) AS Promig
 FROM Espectacle EC, Entrades EN
 WHERE EC.Nom = 'La Ventafochs' AND
 EN.Codi_Espectacle = EC.Codi

 GROUP BY EN.Zona;

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30. SELECT EC.Nom, COUNT (*) / COUNT (DISTINCT EN.Data) As Num_Mig
 FROM Espectacles EC, Recintes RC, Entrades EN
 WHERE RC.Ciutat = 'Barcelona' AND
 EC.Codi_Recinte = RC.Codi AND
 EN.Codi_Espectacle = EC.Codi AND
 (EC.Data_Inicial Between TO_DATE('01/01/2012','dd/mm/yyyy') AND
 TO_DATE('31/01/2012','dd/mm/yyyy') OR
 EC.Data_Final Between TO_DATE('01/01/2012','dd/mm/yyyy') And
 TO_DATE('31/01/2012','dd/mm/yyyy'))

 GROUP BY EC.Nom
 ORDER BY Num_Mig;

31. SELECT DISTINCT EC.Nom
 FROM Espectacles EC, Representacions RP
 WHERE EC.Codi = RP.Codi_Espectacle
 GROUP BY EC.Nom, RP.Data
 HAVING COUNT (*) > 1;

 SELECT DISTINCT EC.Nom
 FROM Espectacles EC, Representacions R1, Representacions R2
 WHERE R1.Codi_Espectacle = R2.Codi_Espectacle AND
 R1.Data = R2.Data AND
 R1.Hora <> R2.Hora AND
 R1.Codi_Espectacle = EC.Codi;

32. SELECT RC.Nom
 FROM Recintes RC, Zones Recinte ZR
 WHERE RC.Ciutat = 'Barcelona' AND
 ZR.Codi_Recinte = RC.Codi

 GROUP BY RC.Nom
 HAVING SUM (ZR.Capacitat) >
 (SELECT SUM (ZR2.Capacitat)
 FROM Recintes RC2, Zones Recinte ZR2
 WHERE RC2.Nom = 'Victòria' AND
 ZR2.Codi_Recinte = RC2.Codi);

33. SELECT EC.Nom
 FROM Espectacles EC, Preus_Espectacles PE
 WHERE EC.Codi = PE.Codi_Espectacle
 GROUP BY EC.Nom
 HAVING MAX (PE.Preu) > 18
 ORDER BY EC.Nom;

 SELECT DISTINCT EC.Nom
 FROM Espectacles EC, Preus_Espectacles PE
 WHERE EC.Codi = PE.Codi_Espectacle AND
 PE.Preu > 18;

34. SELECT ED.DNI, ED.Nom, ED.Cognoms
 FROM Espectacles EC, Espectadors ED, Entrades EN
 WHERE EC.Nom = 'La extraña pareja' AND
 EN.Codi_Espectacle = EC.Codi AND
 ED.DNI = EN.DNI_Client

 GROUP BY ED.DNI, ED.Nom, ED.Cognoms
 HAVING COUNT (*) = 1;

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35. SELECT DISTINCT E1.Interpret
FROM Espectacles E1, Espectacles E2, Recintes RC1, Recintes RC2
WHERE E1.Codi_Recinte = RC1.Codi AND
 E2.Codi_Recinte = RC2.Codi AND
 E1.Interpret = E2.Interpret AND
 RC1.Ciutat <> RC2.Ciutat

SELECT EC.Interpret
FROM Espectacles EC, Recintes RC
WHERE EC.Codi_Recinte = RC.Codi
GROUP BY EC.Interpret
HAVING COUNT(DISTINCT RC.Ciutat) > 1;

36. SELECT ED.DNI, ED.Nom, ED.Cognoms
FROM Espectadors ED, Entrades EN
WHERE ED.DNI = EN.DNI_Client AND
 EN.Data BETWEEN TO_DATE('01/01/2011','dd/mm/yyyy') AND
 TO_DATE('31/12/2011','dd/mm/yyyy')

GROUP BY ED.DNI, ED.Nom, ED.Cognoms
HAVING COUNT (DISTINCT EN.Codi_Espectacle) > 1
ORDER BY ED.DNI;

SELECT T.DNI, T.Nom, T.Cognoms
FROM (SELECT DISTINCT ED.DNI,ED.Nom,ED.Cognoms,EN.Codi_Espectacle
 FROM Espectadors ED, Entrades EN
 WHERE ED.DNI = EN.DNI_Client AND
 EN.Data BETWEEN #1/1/2011# AND #31/12/2011#) T
GROUP BY T.DNI, T.Nom, T.Cognoms
HAVING COUNT (*) > 1;

37. SELECT EC.Nom, EN.Data, TO_CHAR(EN.Hora,'HH24:MI:SS') AS HORA
FROM Espectacles EC, Entrades EN
WHERE EC.Codi = EN.Codi_Espectacle
GROUP BY EC.Nom, EN.Data, EN.Hora,EC.Codi_Recinte
HAVING COUNT (*) > 0.5 *
 (SELECT COUNT (*)
 FROM Seients
 WHERE EN.Codi_Recinte = S.Codi_Recinte)

ORDER BY EC.Nom;

SELECT EC.Nom, EN.Data, EN.Hora
FROM Espectacles EC, Entrades EN
WHERE EC.Codi = EN.Codi_Espectacle
GROUP BY EC.Nom, EN.Data, EN.Hora, EC.Codi_Recinte
HAVING COUNT (*) > 0.5 *
 (SELECT SUM (Capacitat)
 FROM Zones Recinte
 WHERE EN.Codi_Recinte = Codi_Recinte);

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38. SELECT S.Zona, S.Fila, S.Numero
 FROM Espectacles EC, Seients S
 WHERE EC.Nom = 'El país de les Cent Paraules' AND
 EC.Codi_Recinte = S.Codi_Recinte AND
 NOT EXISTS
 (SELECT *
 FROM Entrades EN
 WHERE EN.Codi_Espectacle = EC.Codi AND
 EN.Codi_Recinte = S.Codi_Recinte AND
 EN.Zona = S.Zona AND
 EN.Fila = S.Fila AND
 S.Numero = EN.Numero)
 ORDER BY S.Zona,S.Fila,S.Numero;

39. SELECT EC.Nom, RP.Data, TO_CHAR(RP.Hora,'HH24:MI:SS') AS HORA
 FROM Espectacles EC, Representacions RP
 WHERE EC.Codi = RP.Codi_Espectacle AND
 NOT EXISTS
 (SELECT *
 FROM Seients S
 WHERE S.Codi_Recinte = EC.Codi_Recinte AND
 NOT EXISTS
 (SELECT *
 FROM Entrades EN
 WHERE EN.Codi_Espectacle = EC.Codi AND
 EN.Data = RP.Data AND
 EN.Hora = RP.Hora AND
 S.Codi_Recinte = EN.Codi_Recinte AND
 S.Zona = EN.Zona AND
 S.Fila = EN.Fila AND
 S.Numero = EN.Numero)
)
);

SELECT EC.Nom, EN.Data, TO_CHAR(EN.Hora,'HH24:MI:SS') AS HORA
FROM Espectacles EC, Entrades EN
WHERE EC.Codi=EN.Codi_Espectacle AND
 EXISTS (SELECT *
 FROM Seients
 WHERE EN.Zona = Zona AND
 EN.Fila=Fila AND
 EN.Numero=Numero)

ORDERBY EC.Nom, EN.Data;

40. SELECT S.Zona, S.Fila, S.Numero
 FROM Espectacles EC, Seients S
 WHERE EC.Nom = 'Hamlet' AND
 S.Codi_Recinte = EC.Codi_Recinte AND
 NOT EXISTS
 (SELECT *
 FROM Entrades EN
 WHERE EN.Codi_Espectacle = EC.Codi AND
 EN.Codi_Recinte = S.Codi_Recinte AND
 EN.Zona = S.Zona AND
 EN.Fila = S.Fila AND
 EN.Numero = S.Numero AND
 EN.Data = TO_DATE('06/04/2012','dd/mm/yyyy'))
 ORDER BY S.Zona, S.Fila, S.Numero;

```





**( Entrades x Espectadors) [DNI,Nom,Cognoms,Codi\_Espectacle]  
 DIVIDE BY  
 ( Espectacles x (Recintes WHERE Nom='Municipal' AND Ciutat='Girona') )][Codi]**

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(SELECT ES.DNI,ES.Nom,ES.Cognoms
FROM Entrades EN, Espectadors ES
WHERE ES.DNI=EN.DNI_Client)
MINUS
(SELECT T.DNI,T.Nom,T.Cognoms
FROM ((SELECT ES2.DNI,ES2.Nom,ES2.Cognoms,
 EN2.Codi_Espectacle
 FROM Entrades EN2,Espectadors ES2,Recintes R
 WHERE ES2.DNI=EN2.DNI_Client AND
 R.Nom = 'Municipal' AND
 R.Ciutat = 'Girona' AND
 EN2.Codi_Recinte=R.Codi AND
 EN2.Data BETWEEN
 TO_DATE('01/01/2011','dd/mm/yyyy') AND
 TO_DATE('31/12/2011','dd/mm/yyyy'))
 MINUS
 (SELECT ES3.DNI,ES3.Nom,ES3.Cognoms,
 EN3.Codi_Espectacle
 FROM Entrades EN3, Espectadors ES3
 WHERE ES3.DNI=EN3.DNI_Client)) T);
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44. SELECT RC.Nom, RC.Adreça
FROM Recintes RC
WHERE RC.Ciutat = 'Barcelona' AND
NOT EXISTS
 (SELECT *
 FROM Representacions RP
 WHERE EC.Codi_Recinte = RC.Codi AND
 RP.Data BETWEEN TO_DATE('01/01/2012','dd/mm/yyyy')
 AND TO_DATE('31/01/2012','dd/mm/yyyy'));
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45. SELECT S.Zona, S.Fila, S.Numero
FROM Espectacles EC, Seients S
WHERE EC.Nom = 'Els Pastorets' AND
S.Codi_Recinte = EC.Codi_Recinte AND
NOT EXISTS
 (SELECT *
 FROM Representacions RP
 WHERE RP.Codi_Espectacle = EC.Codi AND
NOT EXISTS
 (SELECT
 FROM Entrades EN
 WHERE EN.Codi_Espectacle = EC.Codi AND
 EN.Data = RP.Data AND
 EN.Hora = RP.Hora AND
 EN.Codi_Recinte = S.Codi_Recinte AND
 EN.Zona = S.Zona AND
 EN.Fila = S.Fila AND
 EN.Numero = S.Numero));
```

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46. SELECT EC.Nom, COUNT(*) AS Num_Representacions
 FROM Espectacles EC, Representacions RP
 WHERE EC.Codi = RP.Codi_Espectacle
 GROUP BY EC.Nom
 HAVING COUNT (*) >= ALL
 (SELECT COUNT (*)
 FROM Representacions
 GROUP BY Codi_Espectacle);

47. SELECT ZR.Zona
 FROM Espectacles EC, Zones_Recintes ZR
 WHERE EC.Nom = 'Mar i Cel' AND
 ZR.Codi_Recinte = EC.Codi_Recinte AND
 NOT EXISTS
 (SELECT *
 FROM Seients S
 WHERE S.Codi_Recinte = ZR.Codi_Recinte AND
 S.Zona = ZR.Zona AND
 NOT EXISTS
 (SELECT *
 FROM Entrades EN
 WHERE EN.Codi_Espectacle = EC.Codi AND
 EN.Data = TO_DATE('02/03/2012','dd/mm/yyyy') AND
 EN.Zona = S.Zona AND
 EN.Fila = S.Fila AND
 EN.Numero = S.Numero)
);

48. SELECT EC.Nom
 FROM Espectacles EC, Recintes RP
 WHERE RP.Ciutat = 'Barcelona' AND
 EC.Codi_Recinte = RP.Codi AND
 EXISTS
 (SELECT *
 FROM Entrades EN, Espectadors ED
 WHERE EN.Codi_Espectacle = EC.Codi AND
 ED.DNI = EN.DNI_Client AND
 ED.Ciutat <> 'Barcelona');

 SELECT EC.Nom
 FROM Espectacles EC, Recintes RP, Entrades EN, Espectadors EP
 WHERE RP.Ciutat = 'Barcelona' AND
 EC.Codi_Recinte = RP.Codi AND
 EN.Codi_Espectacle = EC.Codi AND
 ED.DNI = EN.DNI_Client AND
 ED.Ciutat <> 'Barcelona');

49. SELECT RC.Ciutat
 FROM Espectacles EC, Recintes RC
 WHERE RC.Ciutat <> 'Barcelona' AND
 EC.Codi_Recinte = RC.Codi

 GROUP BY RC.Ciutat
 HAVING COUNT (*) >= ALL
 (SELECT COUNT (*)
 FROM Recintes RC2, Espectacles EC2
 WHERE RC2.Codi = EC2.Codi_Recinte AND
 RC2.Ciutat <> 'Barcelona'
 GROUP BY RC2.Ciutat);

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50. SELECT DISTINCT EC.Interpret
 FROM Espectacles EC, Representacions RP
 WHERE EC.Codi = RP.Codi_Espectacle AND
 RP.Data BETWEEN TO_DATE('01/01/2011', 'dd/mm/yyyy') AND
 TO_DATE('31/12/2011', 'dd/mm/yyyy') AND
 NOT EXISTS
 (SELECT *
 FROM Espectacles EC2, Representacions RP2
 WHERE EC2.Codi = RP2.Codi_Espectacle AND
 EC2.Interpret = EC.Interpret AND
 RP2.Data > TO_DATE('01/01/2012', 'dd/mm/yyyy'));

51. SELECT ED.DNI, ED.Nom, ED.Cognoms,
 FROM Espectadors ED, Entrades EN, Preus_Espectacles PE
 WHERE ED.DNI = EN.DNI_Client AND
 EN.Codi_Espectacle = PE.Codi_Espectacle AND
 EN.Zona = PE.Zona
 GROUP BY ED.DNI, ED.Nom, ED.Cognoms
 HAVING SUM(PE.Preu) > 500
 ORDER BY ED.DNI;

52. SELECT RC.Nom, RC.Adreça, RC.Ciutat
 FROM Recintes RC, Zones_Recinte ZR
 WHERE RC.Codi = ZR.Codi_Recinte
 GROUP BY RC.Codi, RC.Nom, RC.Adreça, RC.Ciutat
 HAVING SUM(ZR.Capacitat) > 60;

 SELECT RC.Nom, RC.Adreça, RC.Ciutat
 FROM Recintes RC,
 WHERE 60 < (
 SELECT SUM(ZR.Capacitat)
 FROM Zones_Recinte ZR
 WHERE ZR.Codi_Recinte = RC.Codi);

53. SELECT Interpret
 FROM Espectacles
 GROUP BY Interpret
 HAVING COUNT(*) = 1
 ORDER BY Interpret;

54. SELECT ES.Nom, ES.Tipus
 FROM Espectacles ES, Representacions RP
 WHERE ES.Codi = RP.Codi_Espectacle
 GROUP BY ES.Nom, ES.Tipus
 HAVING COUNT(*) = 1
 ORDER BY ES.Nom;

55. SELECT RC.Nom, RC.Adreça, RC.Ciutat
 FROM Espectacles ES, Recintes RC
 WHERE RC.Codi = ES.Codi_Recinte
 GROUP BY RC.Nom, RC.Adreça, RC.Ciutat
 HAVING COUNT(*) = 1;

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56. SELECT ES.Nom, COUNT(*) AS Num_Espect
 FROM Espectacles ES, Entrades EN, Recintes RC
 WHERE RC.Nom = 'La Faràndula' AND
 ES.Codi_Recinte = RC.Codi AND
 EN.Codi_Espectacle = ES.Codi
 GROUP BY ES.Nom
 ORDER BY Num_Espect DESC;

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57. SELECT ED.DNI, ED.Nom, ED.Cognoms, EN.Codi_Espectacle
 FROM Espectadors ED, Entrades EN
 WHERE ED.DNI = EN.DNI_Client
 GROUP BY ED.DNI, ED.Nom, ED.Cognoms, EN.Codi_Espectacle
 HAVING COUNT(*) = 1
 ORDER BY ED.Cognoms, EN.Codi_Espectacle;

```

```

58. SELECT ED.DNI, ED.Nom, ED.Cognoms
 FROM Espectadors ED, Entrades EN
 WHERE ED.DNI = EN.DNI_Client
 GROUP BY ED.DNI, EN.Nom, EN.Cognoms
 HAVING COUNT(*) >= ALL (SELECT COUNT(*)
 FROM Espectadors ED2, Entrades EN2
 WHERE ED2.DNI = EN2.DNI_Client
 GROUP BY ED2.DNI
);

```

```

SELECT ED.DNI, ED.Nom, ED.Cognoms
 FROM Espectadors ED, Entrades EN
 WHERE ED.DNI = EN.DNI_Client
 GROUP BY ED.DNI, EN.Nom, EN.Cognoms
 HAVING COUNT(*) >= (SELECT MAX(T1.Total)
 FROM (SELECT ED2.DNI,
 COUNT(*) AS Total
 FROM Espectadors ED2,
 Entrades EN2
 WHERE ED2.DNI = EN2.DNI_Client
 GROUP BY ED2.DNI
) T1
);

```

```

59. SELECT ES.Nom, ES.Tipus, R.Data, TO_CHAR(R.Hora, 'HH24:MI:SS')
 FROM Espectacles ES, Representacions R, Entrades EN
 WHERE R.Codi_Espectacle = ES.Codi AND
 EN.Codi_Espectacle = R.Codi_Espectacle AND
 EN.Data = R.Data AND
 EN.Hora = R.Hora
 GROUP BY ES.Nom, ES.Tipus, R.Data, R.Hora
 HAVING SUM(EN.Numero) >= ALL
 (SELECT SUM(EN2.Numero)
 FROM Representacions R2, Entrades EN2
 WHERE R2.Codi_Espectacle = EN2.Codi_Espectacle AND
 R2.Data = EN2.Data AND
 R2.Hora = EN2.Hora
 GROUP BY R2.Codi_Espectacle, R2.Data, R2.Hora
);

```

```

SELECT ES.Nom, ES.Tipus, R.Data, TO_CHAR(R.Hora,'HH24:MI:SS')
FROM Espectacles ES, Representacions R, Entrades EN
WHERE R.Codi_Espectacle = ES.Codi AND
 EN.Codi_Espectacle = R.Codi_Espectacle AND
 EN.Data = R.Data AND
 EN.Hora=R.Hora
GROUPBY ES.Nom, ES.Tipus, R.Data, R.Hora
HAVING SUM(EN.Numero) >=
 (SELECT MAX(T1.Total)
 FROM (SELECT R2.Codi_Espectacle, R2.Data, R2.Hora,
 SUM(EN2.Numero) AS Total
 FROM Representacions R2, Entrades EN2
 WHERE R2.Codi_Espectacle=EN2.Codi_Espectacle AND
 R2.Data=EN2.Data AND
 R2.Hora=EN2.Hora
 GROUPBY R2.Codi_Espectacle, R2.Data, R2.Hora
) T1);

```

```

60. SELECT ES.Nom, ES.Tipus
FROM Espectacles ES, Entrades EN
WHERE EN.Codi_Espectacle = ES.Codi AND
GROUPBY ES.Nom, ES.Tipus
HAVING SUM(EN.Numero) >= ALL
 (SELECT SUM(EN2.Numero)
 FROM Representacions R2, Entrades EN2
 WHERE R2.Codi_Espectacle= EN2.Codi_Espectacle AND
 R2.Data = EN2.Data AND
 R2.Hora=EN2.Hora
 GROUP BY R2.Codi_Espectacle
);

```

```

SELECT ES.Nom, ES.Tipus
FROM Espectacles ES, Entrades EN
WHERE EN.Codi_Espectacle = ES.Codi AND
GROUPBY ES.Nom, ES.Tipus
HAVING SUM(EN.Numero) >=
 (SELECT MAX(T1.Total)
 FROM (SELECT R2.Codi_Espectacle,
 SUM(EN2.Numero) AS Total
 FROM Representacions R2, Entrades EN2
 WHERE R2.Codi_Espectacle= EN2.Codi_Espectacle AND
 R2.Data = EN2.Data AND
 R2.Hora=EN2.Hora
 GROUP BY R2.Codi_Espectacle
) T1);

```



```

64. SELECT ES.Nom, COUNT(*) AS Num_Espectadors
 FROM Espectacles ES, Entrades EN
 WHERE ES.Tipus = 'Musical' AND
 EN.Codi_Espectacle = ES.Codi
 GROUP BY ES.Nom
 HAVING COUNT(*) <= ALL (SELECT COUNT(*)
 FROM Espectacles ES2, Entrades EN2
 WHERE ES2.Tipus = 'Musical' AND
 EN2.Codi_Espectacle=ES2.Codi
 GROUPBY ES2.Codi);

65. SELECT R.Codi, R.Nom, R.Ciutat, COUNT(*) AS Num_Representacions
 FROM Recintes R, Espectacles ES, Representacions RE
 WHERE ES.Codi_Recinte = R.Codi AND
 RE.Codi_Espectacle=ES.Codi
 GROUPBY R.Codi, R.Nom, R.Ciutat
 HAVING COUNT(*) >= ALL (SELECT COUNT(*)
 FROM Representacions RE2,
 Espectacles ES2
 WHERE RE2.Codi_Espectacle=ES2.Codi
 GROUPBY ES2.Codi_Recinte
);

66. SELECT R.Codi, R.Nom, R.Ciutat, COUNT(*) AS Num_Espectadors
 FROM Recintes R, Entrades EN
 WHERE EN.Codi_Recinte = R.Codi
 GROUPBY R.Codi, R.Nom, R.Ciutat
 HAVING COUNT(*) >= ALL (SELECT COUNT(*)
 FROM Entrades EN2
 GROUP BY EN2.Codi_Recinte
);

67. SELECT ES.Nom, COUNT(*) AS Num_Representacions
 FROM Representacions RE, Espectacles ES
 WHERE ES.Nom = 'Otelo' AND
 RE.Codi_Espectacle = ES.Codi
 GROUP BY ES.Nom;

68. (SELECT ED.Nom, ED.Cognoms, ED.Ciutat
 FROM Espectadors ED)
 MINUS (EXCEPT)
 (SELECT DISTINCT ED.Nom, ED.Cognoms, ED.Ciutat
 FROM Espectadors ED, Entrades EN
 WHERE EN.DNI_Client = ED.DNI);

```

**AMB LEFT JOIN:**

```

SELECT ED.Nom, ED.Cognoms, ED.Ciutat
FROM Espectadors ED, Entrades EN
WHERE EN.DNI_Client (+) = ED.DNI AND
 EN.Codi_Espectacle IS NULL;

```



```

SELECT ED.Nom, ED.Cognoms, ED.Ciutat
FROM Espectadors ED
WHERE ED.DNI NOT IN (SELECT DISTINCT EN.DNI_Client
 FROM Entrades EN);

69. SELECT Codi_Espectacle, COUNT(*) AS Num_Rep
FROM Representacions
WHERE Data = TO_DATE('20/10/2011','dd/mm/yyyy')
GROUPBY EN.Codi_Espectacle;

70. SELECT DISTINCT ES.Nom
FROM Espectacles ES, Representacions RE
WHERE Interpret = 'La Joventut de la Faràndula' AND
RE.Codi_Espectacle=ES.Codi;

71. SELECT R.Nom, SUM(ZR.Capacitat) AS Num_Places
FROM Recintes R, Zones_Recinte ZR
WHERE Ciutat = 'Barcelona' AND
ZR.Codi_Recinte=R.Codi
GROUP BY R.Nom
ORDER BY R.Nom;

72. SELECT SUM(ZR.Capacitat) AS Aforo_Total
FROM Recintes R, Zones_Recinte ZR
WHERE R.Ciutat='Barcelona' AND
ZR.Codi_Recinte=R.Codi;

73. SELECT SUM(ZR.Capacitat) AS Aforo_Total
FROM Recintes R, Zones_Recinte ZR
WHERE ZR.Codi_Recinte=R.Codi;

74. SELECT R.Nom, ZR.Zona, ZR.Capacitat AS Capacitat
FROM Recintes R, Zones_Recinte ZR
WHERE R.Codi = ZR.Codi_Recinte AND
ZR.Capacitat >= (SELECT MAX (ZR2.Capacitat)
 FROM Zones_Recinte ZR2);

75. SELECT ES.Nom, PE.Preu As Preu
FROM Espectacles ES, Preus_Espectacles PE
WHERE ES.Codi = PE.Codi_Espectacle AND
PE.Preu >= (SELECT MAX (PE2.Preu)
 FROM Preus_Espectacles PE2);

76. SELECT DISTINCT ES.Nom, PE.Preu As Preu
FROM Espectacles ES, Preus_Espectacles PE
WHERE ES.Codi = PE.Codi_Espectacle AND
PE.Preu <= (SELECT MIN (PE2.Preu)
 FROM Preus_Espectacles PE2);

```

```

77. SELECT T3.Total_Preus/T2.Total_Espectacles AS Promig
 FROM (
 SELECT COUNT(*) AS Total_Espectacles
 FROM (SELECT DISTINCT Codi_Espectacle
 FROM Preus_Espectacles
) T1
) T2,
 (SELECT SUM(Preu) AS Total_Preus
 FROM Preus_Espectacles
) T3;

```

```

78. SELECT T3.Total_Preus/T2.Total_Espectacles AS Promig
 FROM (
 SELECT COUNT(*) AS Total_Espectacles
 FROM (SELECT DISTINCT Codi_Espectacle
 FROM Representacions
) T1
) T2,
 (SELECT SUM(Preu) AS Total_Preus
 FROM Preus_Espectacles
) T3;

```

```

79. SELECT T1.Aforo_Venut / T2.Total_Aforo AS Promig
 FROM (
 SELECT COUNT(*) AS Aforo_Venut
 FROM Recintes R, Entrades EN
 WHERE R.Ciutat = 'Barcelona' AND
 R.Codi = EN.Codi_Recinte) T1,
 (SELECT COUNT(*) AS Total_Aforo
 FROM Recintes R, Seients S
 WHERE R.Ciutat = 'Barcelona' AND
 R.Codi = S.Codi_Recinte) T2;

```

```

80. SELECT T1.Aforo_Venut / T2.Total_Aforo AS Promig
 FROM (
 SELECT COUNT(*) AS Aforo_Venut
 FROM Entrades EN) T1,
 (SELECT COUNT(*) AS Total_Aforo
 FROM Seients S) T2;

```

```

81. SELECT T1.Total_Espect / T2.Tot_Espect AS Promig
 FROM (
 SELECT COUNT(*) AS Total_Espect
 FROM Entrades) T1,
 (SELECT COUNT(*) AS Tot_Espect
 FROM Espectacles) T2;

```

```

82. SELECT T1.Tot_Espect / T2.Tot_Repres AS Promig
 FROM (
 SELECT COUNT(*) AS Tot_Espect
 FROM Entrades) T1,
 (SELECT COUNT(*) AS Total_Repres
 FROM Representacions) T2;

```

```

83. SELECT EN.DNI_Client
 FROM Entrades EN, Espectacles ES
 WHERE ES.Interpret='El Tricicle' AND
 EN.Codi_Espectacle=ES.Codi
 GROUP BY EN.DNI_Client
 HAVING COUNT(DISTINCT ES.Codi) = (SELECT COUNT(*)
 FROM Espectacles
 WHERE Interpret='El Tricicle');

```

```

SELECT EN.DNI_Client
FROM Entrades
WHERE (SELECT COUNT(DISTINCT ES.Codi)
 FROM Entrades EN2, Espectacles ES
 WHERE EN2.DNI_Client=EN.DNI_Client AND
 ES.Codi=EN2.Codi_Espectacle AND
 ES.Interpret='El Tricicle')
 =
 (SELECT COUNT(*)
 FROM Espectacles
 WHERE Interpret='El Tricicle');

```

**ENTRADES[Codi\_Espectacle,DNI\_Client]  
DIV  
ESPECTACLES WHERE Interpret='Tricicle')[Codi]**

```

(SELECT EN.DNI_Client
 FROM Entrades EN)
MINUS
(SELECT T.DNI_Client
 FROM ((SELECT EN2.DNI_Client, ES.Codi
 FROM Entrades EN2, Espectacles ES
 WHERE ES.Interpret='El Tricicle')
 MINUS
 (SELECT EN3.DNI_Client, EN3.Codi_Espectacle
 FROM Entrades EN3)
) T);

```

```

84. SELECT EN.Zona, EN.Fila, EN.Numero, COUNT(*) AS Num_Entrades_Venudes
 FROM Entrades EN, Recintes R
 WHERE R.Nom = 'Victòria' AND
 EN.Codi_Recinte = R.Codi
 GROUP BY EN.Zona, En.Fila, En.Numero
 HAVING COUNT(*) >= ALL (SELECT COUNT(*)
 FROM Entrades EN2, Recintes R2
 WHERE R2.Nom = 'Victòria' AND
 EN2.Codi_Recinte=R2.Codi
 GROUP BY EN2.Zona, EN2.Fila, EN2.Numero);

```

```

85. (SELECT DNI,Nom, Cognoms
 FROM Espectadors)
 MINUS
 (SELECT ES.DNI,ES.Nom,ES.Cognoms
 FROM Espectadors ES,Entrades EN, Espectacles ET
 WHERE ET.Interpret='El Tricicle' AND
 EN.Codi_Espectacle=ET.Codi AND
 ES.DNI=EN.DNI_Client);

```

**Espectadors[DNI,Nom,Cognoms]**

**MINUS**

**( (Espectadors x Entrades)[Codi\_Espectacle, DNI, Nom, Cognoms]**  
**DIVIDE BY**  
**(Espectadors WHERE Interpret='Tricicle')[Codi]**  
**);**

```

(SELECT DNI, Nom, Cognoms
 FROM Espectadors)
 MINUS
 ((SELECT ES.DNI,ES.Nom,ES.Cognoms
 FROM Espectadors ES,Entrades EN)
 MINUS
 (SELECT T.DNI,T.Nom,T.Cognoms
 FROM ((SELECT ES.DNI, ES.Nom, ES.Cognoms, ET.Codi
 FROM Espectadors ES, Entrades EN, Espectacles ET
 WHERE ET.Interpret='El Tricicle')
 MINUS
 (SELECT ES.DNI,ES.Nom,ES.Cognoms,
 EN.Codi_Espectacle
 FROM Espectadors ES, Entrades EN)
) T)
)
);

```

**86. (Espectadors x Entrades)[Codi\_Espectacle,DNI,Nom,Cognoms]**  
**DIVIDE BY**  
**( (Espectadors x Recintes) WHERE R.Codi='Victòria')[ES.Codi]**

```

(SELECT ES.DNI, ES.Nom, ES.Cognoms
 FROM Espectadors ES, Entrades EN
 WHERE ES.DNI=EN.DNI_Client)
 MINUS
 (SELECT T.DNI, T.Nom, T.Cognoms
 FROM ((SELECT ES2.DNI,ES2.Nom,ES2.Cognoms,ET.Codi
 FROM Espectadors ES2,Entrades EN2, Espectacles ET,Recintes R
 WHERE ES2.DNI=EN2.DNI_Client AND
 R.Nom='Victòria' AND
 ET.Codi_Recinte=R.Codi)
 MINUS
 (SELECT ES3.DNI,ES3.Nom,ES3.Cognoms,
 EN3.Codi_Espectacle
 FROM Espectadors ES3, Entrades EN3
 WHERE ES3.DNI=EN3.DNI_Client)
) T);

```

```

87. SELECT ZR.Zona
FROM Zones_Recinte ZR
WHERE (SELECT COUNT(DISTINCT ZR2.Codi_recinte)
 FROM Zones_Recinte ZR2
 WHERE ZR2.Zona=ZR.Zona)
=
(SELECT COUNT(*)
FROM Recintes);

```

**Zones\_Recinte[Zona,Codi\_Recinte]**  
**DIVIDE BY**  
**Zones\_Recinte[Codi\_Recinte]**

```

(SELECT ZR.Zona
 FROM Zones_Recinte ZR)
MINUS
(SELECT T.Zona
 FROM ((SELECT ZR.Zona, ZR2.Codi_Recinte
 FROM Zones_Recinte ZR, Zones_Recinte ZR2)
 MINUS
 (SELECT ZR3.ZONA,ZR3.Codi_Recinte
 FROM Zones_Recinte ZR3)
) T);

```

```

88. SELECT Codi_Recinte, Capacitat
FROM Zones_Recinte
WHERE Zona = 'Platea;

```

```

89. SELECT R.Codi, R.Nom, COUNT(*) As Num_Entrades
FROM Recintes R, Entrades EN
WHERE R.Codi = EN.Codi_Recinte
GROUP BY R.Codi, R.Nom
HAVING COUNT(*) >=ALL (SELECT COUNT(*)
 FROM Entrades EN2
 GROUP BY EN2.Codi_Recinte);

```

```

90. SELECT ES.Interpret, COUNT(*) AS Num_Representacions
FROM Espectacles ES, Representacions RE
WHERE ES.Codi = RE.Codi_Espectacle
GROUP BY ES.Interpret
HAVING COUNT(*) >= ALL (SELECT COUNT(*)
 FROM Espectacles ES2, Representacions RE2
 WHERE ES2.Codi = RE2.Codi_Espectacle
 GROUP BY ES2.Interpret);

```

```

91. SELECT R.Codi, R.Nom, COUNT(*) AS Num_Representacions
FROM Recintes R, Representacions RE, Espectacles ET
WHERE ET.Codi=RE.Codi_Espectacle AND R.Codi = ET.Codi_Recinte
GROUP BY R.Codi, R.Nom
HAVING COUNT(*) >= ALL (SELECT COUNT(*)
 FROM Representacions RE2, Espectacles ET2
 WHERE ET2.Codi=RE2.Codi_Espectacle
 GROUP BY ET2.Codi_Recinte)

ORDER BY R.Codi;

```

```

92. SELECT EN.Codi_Espectacle,EN.Data,
 TO_CHAR(EN.Hora,'HH24:MI:SS') AS Hora,ES.Interpret,EN.Codi_Recinte
FROM Espectacles ES, Entrades EN
WHERE EN.Codi_Espectacle = ES.Codi
GROUP BY EN.Codi_Espectacle, En.Data, EN.Hora, EN.Codi_Recinte, ES.Interpret
HAVING COUNT(*) >= ALL (SELECT COUNT(*)
 FROM Entrades
 GROUP BY Codi_Espectacle,Data,Hora,
 Codi_Recinte);

93. SELECT MAX(T2.Total) AS Recaptació_Màxima
FROM (SELECT SUM(T1.T_Venut * T1.PreuZ) AS Total
 FROM (SELECT EN.Codi_Espectacle,PE.Zona,
 PE.Preu AS PreuZ,COUNT(*) AS T_Venut
 FROM Entrades EN, Preus_Espectacles PE
 WHERE PE.Codi_Espectacle=EN.Codi_Espectacle AND
 PE.Zona=EN.Zona
 GROUP BY EN.Codi_Espectacle,PE.Zona,PE.Preu) T1
 GROUP BY T1.Codi_Espectacle) T2;

94. SELECT ES.Nom, ES.Interpret, T1.T_Recaptat
FROM Espectacles ES,
 (SELECT EN.Codi_Espectacle AS CE, PE.Zona,
 (PE.Preu * COUNT(*)) AS T_Recaptat
 FROM Entrades EN, Preus_Espectacles PE
 WHERE PE.Codi_Espectacle=EN.Codi_Espectacle AND
 PE.Zona=EN.Zona
 GROUP BY EN.Codi_Espectacle,PE.Zona,PE.Preu) T1
WHERE T1.CE=ES.Codi
GROUP BY ES.Nom, ES.Interpret,T1.T_Recaptat
HAVING T1.T_Recaptat >=ALL (SELECT (PE2.Preu * COUNT(*))
 FROM Entrades EN2,
 Preus_Espectacles PE2
 WHERE PE2.Codi_Espectacle=EN2.Codi_Espectacle
 AND
 PE2.Zona=EN2.Zona
 GROUP BY EN2.Codi_Espectacle,PE2.Zona,PE2.Preu);

95. SELECT MAX(T2.Total) AS Total_Recaptacio
FROM (SELECT SUM(T1.T_Recaptat_Zona) AS Total
 FROM (SELECT EN.Codi_Espectacle AS CE, EN.Data AS Dat,
 EN.Hora As Hor,EN.Zona,
 (PE.Preu *COUNT(*)) AS T_Recaptat_Zona
 FROM Entrades EN, Preus_Espectacles PE
 WHERE PE.Codi_Espectacle=EN.Codi_Espectacle AND
 PE.Zona=EN.Zona
 GROUP BY EN.Codi_Espectacle,EN.Data,EN.Hora,EN.Zona,
 PE.Preu
) T1
 GROUP BY T1.CE,T1.Dat,T1.Hor
) T2 ;

```

```

96. SELECT T1.CE AS Codi_Espectacle, T1.Dat AS Data,
 TO_CHAR(T1.Hor'HH24:MI:SS') As Hora,ES.Interpret,
 R.Nom AS Nom_Recinte,
 SUM(T1.T_Recaptat_Zona) AS Total_Recaptat
FROM Recintes R,Espectacles ES,
 (SELECT EN2.Codi_Espectacle AS CE,
 EN2.Data AS Dat,EN2.Hora AS Hor,EN2.Zona,
 (PE.Preu * COUNT(*)) AS T_Recaptat_Zona
 FROM Entrades EN2, Preus_Espectacles PE
 WHERE PE.Codi_Espectacle=EN2.Codi_Espectacle AND
 PE.Zona=EN2.Zona
 GROUP BY EN2.Codi_Espectacle,EN2.Data,EN2.Hora,EN2.Zona,
 PE.Preu) T1,
 (SELECT DISTINCT Codi_Espectacle,Data,Hora,
 Codi_Recinte AS Cod_Rec
 FROM Entrades) CR
WHERE T1.CE=ES.Codi AND
 T1.CE=CR.Codi_Espectacle AND
 T1.Dat=CR.Data AND
 T1.Hor=CR.Hora AND
 CR.Cod_Rec = R.Codi
GROUP BY T1.CE,T1.Dat,T1.Hor,ES.Interpret,R.Nom
HAVING SUM(T1.T_Recaptat_Zona) >=ALL
 (SELECT SUM(T2.T_Recaptat_Zona2)
 FROM (SELECT EN3.Codi_Espectacle AS CE2,
 EN3.Data AS Dat,
 EN3.Hora AS Hor,EN3.Zona,
 (PE2.Preu * COUNT(*)) AS
 T_Recaptat_Zona2
 FROM Entrades EN3, Preus_Espectacles PE2
 WHERE PE2.Codi_Espectacle=EN3.Codi_Espectacle
 AND PE2.Zona=EN3.Zona
 GROUP BY EN3.Codi_Espectacle,EN3.Data,
 EN3.Hora,EN3.Zona,PE2.Preu
) T2
 GROUP BY T2.CE2,T2.Dat,T2.Hor);

```

```

97. SELECT R.Codi, R.Nom, R.Ciutat
FROM Recintes R,Zones_Recinte ZR
WHERE R.Codi=ZR.Codi_Recinte
GROUP BY R.Codi,R.Nom, R.Ciutat
HAVING COUNT(*)>1
ORDER BY R.Codi;

```

```

98. SELECT R.Codi, R.Nom, R.Ciutat
FROM Recintes R,Zones_Recinte ZR
WHERE R.Codi=ZR.Codi_Recinte
GROUP BY R.Codi,R.Nom, R.Ciutat
HAVING COUNT(*)=1
ORDER BY R.Codi;

```

```

99. SELECT ES.DNI, ES.Nom, ES.Cognoms, COUNT(*) AS Num_Entrades
 FROM Entrades EN, Espectadors ES, Recintes R
 WHERE R.Nom='La Faràndula' AND
 EN.Codi_Recinte=R.Codi AND
 ES.DNI=EN.DNI_Client
 GROUP BY ES.DNI,ES.Nom,ES.Cognoms
 HAVING COUNT(*) >= ALL (SELECT COUNT(*)
 FROM Entrades EN2,Recintes R2
 WHERE R2.Nom='La Faràndula' AND
 EN2.Codi_Recinte=R2.Codi
 GROUP BY EN2.DNI_Client)

 ORDER BY ES.DNI;

```

```

100. SELECT ES.DNI, ES.Nom, ES.Cognoms, COUNT(*) AS Num_Entrades
 FROM Entrades EN, Espectadors ES, Recintes R
 WHERE R.Ciutat='Barcelona' AND
 EN.Codi_Recinte=R.Codi AND
 ES.DNI=EN.DNI_Client
 GROUP BY ES.DNI,ES.Nom,ES.Cognoms
 HAVING COUNT(*) >= ALL (SELECT COUNT(*)
 FROM Entrades EN2,Recintes R2
 WHERE R2.Ciutat='Barcelona' AND
 EN2.Codi_Recinte=R2.Codi
 GROUP BY EN2.DNI_Client);

```

```

101. SELECT ES.DNI, ES.Nom, ES.Cognoms, COUNT(*) AS Num_Entrades
 FROM Entrades EN, Espectadors ES, Recintes R
 WHERE R.Ciutat='Barcelona' AND
 EN.Codi_Recinte=R.Codi AND
 ES.DNI=EN.DNI_Client
 GROUP BY ES.DNI,ES.Nom,ES.Cognoms
 ORDER BY Num_Entrades DESC;

```

```

102. SELECT ES.DNI, ES.Nom, ES.Cognoms, COUNT(*) AS Num_Entrades
 FROM Entrades EN, Espectadors ES
 WHERE ES.DNI=EN.DNI_Client
 GROUP BY ES.DNI,ES.Nom,ES.Cognoms
 ORDER BY Num_Entrades DESC;

```

```

103. SELECT ES.DNI, ES.Nom, ES.Cognoms, COUNT(*) AS Num_Entrades
 FROM Entrades EN, Espectadors ES
 WHERE ES.DNI=EN.DNI_Client
 GROUP BY ES.DNI,ES.Nom,ES.Cognoms
 HAVING COUNT(*) >= ALL (SELECT COUNT(*)
 FROM Entrades EN2
 GROUP BY EN2.DNI_Client);

```

Enric Martí

Bellaterra, Setembre del 2011.