| Uppgift | Sql-sats | Execution times 1 | Execution times 2 |
|---|---|---|---|
| 1 | `SELECT * FROM DemoMedlem.dbo.Medlem` | CPU time = 1453 ms, elapsed time = 25279 ms. | CPU time = 1328 ms, elapsed time = 16252 ms. |
| 2 | `SELECT ENAMN, FNAMN, POSTNR, ORT FROM DemoMedlem.dbo.Medlem` | CPU time = 547 ms, elapsed time = 7145 ms. | CPU time = 266 ms, elapsed time = 7181 ms. |
| 3 | `SELECT * FROM DemoMedlem.dbo.Medlem ORDER BY ENAMN` | CPU time = 4781 ms, elapsed time = 18563 ms. | CPU time = 4360 ms, elapsed time = 17159 ms. |
| 4 | `SELECT * FROM DemoMedlem.dbo.Medlem ORDER BY ENAMN, FNAMN` | CPU time = 5063 ms, elapsed time = 18538 ms. | CPU time = 5218 ms, elapsed time = 18290 ms. |
| 5 (note: kraftiga variationer) | `SELECT ENAMN, FNAMN, POSTNR, ORT FROM DemoMedlem.dbo.Medlem ORDER BY ENAMN` | CPU time = 2313 ms, elapsed time = 2892 ms. | CPU time = 2344 ms, elapsed time = 8763 ms. |
| 6 | `SELECT ENAMN, FNAMN, POSTNR, ORT FROM DemoMedlem.dbo.Medlem ORDER BY ENAMN, FNAMN` | CPU time = 2734 ms, elapsed time = 6191 ms. | CPU time = 2782 ms, elapsed time = 3208 ms. |
| 7 | `SELECT * FROM DemoMedlem.dbo.Medlem WHERE ORT='Kalmar'` | CPU time = 125 ms, elapsed time = 125 ms. | CPU time = 109 ms, elapsed time = 119 ms. |
| 8 | `SELECT * FROM DemoMedlem.dbo.Medlem WHERE ORT Like 'Kal%'` | CPU time = 141 ms, elapsed time = 162 ms. | CPU time = 172 ms, elapsed time = 164 ms. |
| 9 | `SELECT * FROM DemoMedlem.dbo.Medlem WHERE ORT Like 'Kal%' AND ENAMN Like '%son%' ORDER BY Fastnr` | CPU time = 172 ms, elapsed time = 181 ms. | CPU time = 172 ms, elapsed time = 171 ms. |
| 10 | `SELECT * FROM DemoMedlem.dbo.Medlem WHERE DATEDIFF(DAY, TODATETIMEOFFSET((CAST(ANNDATUM AS VARCHAR)),'+01:00') ,CURRENT_TIMESTAMP) < 365 AND ANNDATUM != 0` | CPU time = 157 ms, elapsed time = 170 ms. | CPU time = 187 ms, elapsed time = 182 ms. |
| 11 | `SELECT COUNT(ANNDATUM) AS AntalAnnulerade, YEAR(TODATETIMEOFFSET((CAST(ANNDATUM AS VARCHAR)),'+01:00')) AS Anno, ORT FROM DemoMedlem.dbo.Medlem WHERE ANNDATUM != 0 GROUP BY YEAR(TODATETIMEOFFSET((CAST(ANNDATUM AS VARCHAR)),'+01:00')), ORT` | CPU time = 297 ms, elapsed time = 291 ms. | CPU time = 281 ms, elapsed time = 289 ms. |
| 12 | `SELECT DISTINCT ORT FROM DemoMedlem.dbo.Medlem ORDER BY ORT` | CPU time = 375 ms, elapsed time = 374 ms. | CPU time = 359 ms, elapsed time = 359 ms. |
| 13 | `SELECT * FROM DemoMedlem.dbo.Medlem WHERE Telenr1 != Telenr2` | CPU time = 1453 ms, elapsed time = 12600 ms. | CPU time = 1344 ms, elapsed time = 13971 ms. |

Konecptuell modell
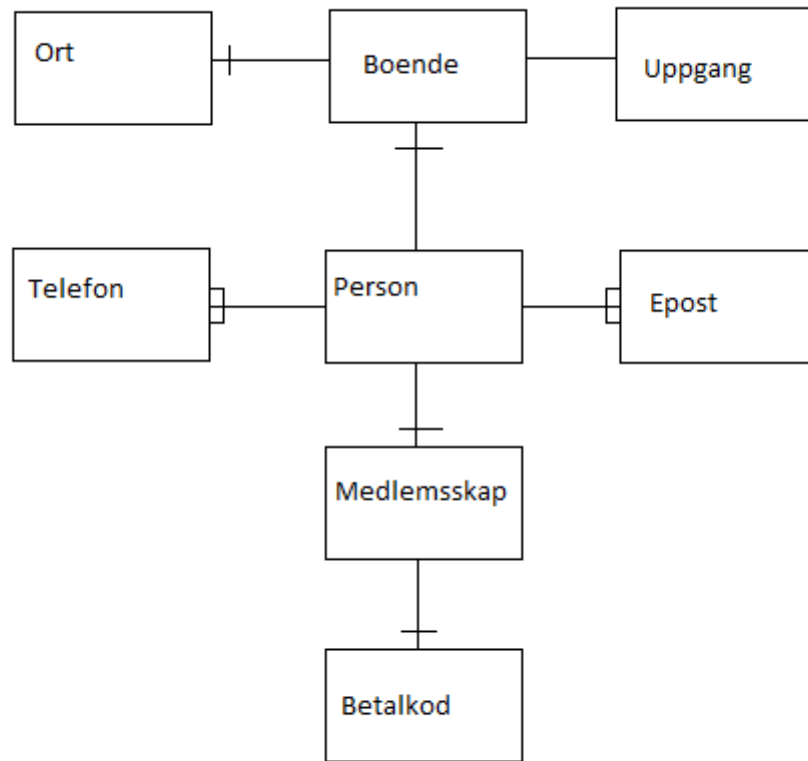
Fysisk model
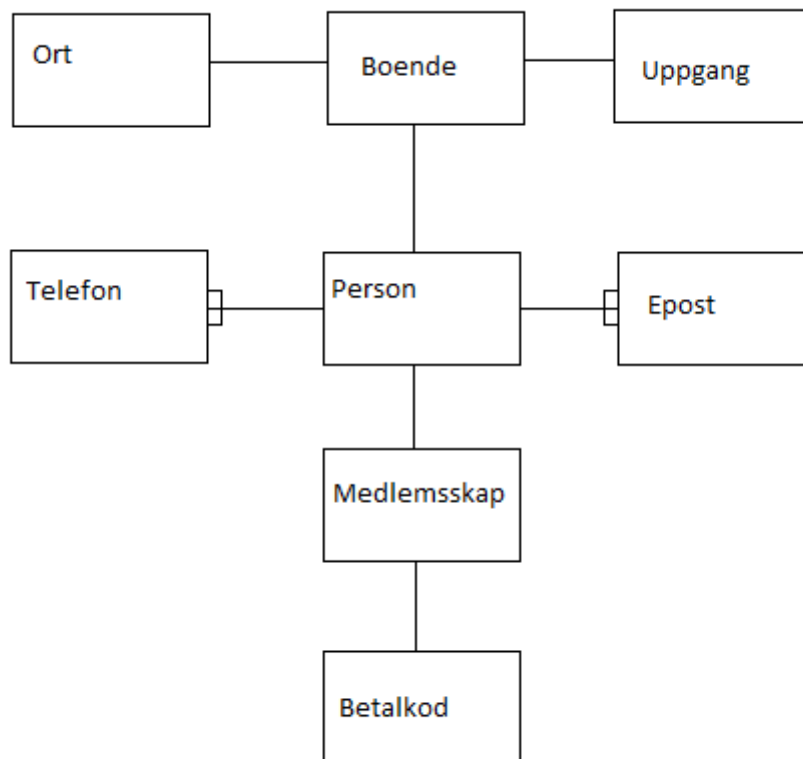


| Telefon | | |
|---|---|---|
| **ID** | Int | |
| TeleNummer | Int | |
| *PersonID* (Index) | Int | |

| Person | | |
|---|---|---|
| **PersonID** | Int | |
| Fnamn | VARCHAR | 63 |
| Enamn (Index) | VARCHAR | 63 |
| *MedlemID* (Index) | Int | |
| *BoendeID* (Index) | Int | |

| Medlemskap | | |
|---|---|---|
| **MedlemID** | Int | |

| | | |
|---|---|---|
| Indatum | Date | |
| Anndatum | Date | |
| Vervkod | Tinyint | |
| Betaltom | Date | |
| Indatum | Date | |
| Enddatum | Date | |
| Inpabet | Date | |
| Tidning | bool | |
| Förhandl | bool | |
| Erskortdatum | Date | |
| Vervdatum | Date | |
| Huvkortdatum | Date | |
| *Betalkod* (Index) | Int | |

| Boende | | |
|---|---|---|
| **BoendeID** | Int | |
| Gatunamn | Varchar | 63 |
| Gatunr | smallint | |
| Postnr | Int | |
| *OrtID* (Index) | Int | |
| Conamn | Varchar | 63 |
| Andrahand | bool | |
| Fastnr | int | |
| *UppgangID* (Index) | Int | |

| Betalkod | | |
|---|---|---|
| **BetalkodID** | Int | |
| Typ | Varchar | 4 |

| Uppgang | | |
|---|---|---|
| **UppgangID** | Int | |
| Typ | Varchar | 2 |

| Ort | | |
|---|---|---|
| **OrtID** | Int | |
| Namn | Varchar | 63 |

| Epost | | |
|---|---|---|
| **EpostID** | Int | |
| Epost | Varchar | 63 |
| *PersonID* (Index) | Int | |