

Code Review 紀錄內容

更新日期：2024/08/01

日期	CR 人員	題號	備註
2024/08/01	周芸婕	全部	
1. SQL 語法撰寫不符合規範	<p>SQL 保留字應小寫，schema、表格名稱、欄位名稱才要大寫。</p> <p>可寫成多行，每個子句換新行，用縮排增加可讀性</p> <p>修改前：</p> <pre>SELECT DISTINCT PI.POLICE_NAME AS , PI.POLICE_TEL FROM(     SELECT PEOPLE, POLICE_SERIAL     FROM FACILITY_INF     WHERE PEOPLE &gt; 1000) AA LEFT JOIN POLICE_INF PI ON AA.POLICE_SERIAL = PI.POLICE_SERIAL</pre> <p>修改後：</p> <pre>select distinct PI.POLICE_NAME as 轄管分局 , PI.POLICE_TEL as 分局連絡電話 from STUDENT.FACILITY_INF FI left join STUDENT.POLICE_INF PI on PI.POLICE_SERIAL = FI.POLICE_SERIAL where FI.PEOPLE &gt; 1000;</pre>		
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2. 資料型別可以設大	<p>建立表格時，資料的型別可以預設大一點，避免未來修改資料時空間不夠</p> <p>修改前：</p>		

		<pre>CREATE TABLE DISTRICT_INF( DISTRICT_SERIAL VARCHAR2(10) PRIMARY KEY, DISTRICT NVARCHAR2(10), OFFICE_ADDRESS NVARCHAR2(20), OFFICE_TEL VARCHAR2(20) )</pre> <p>修改後：</p> <pre>create table FACILITY_INF( TYPE nvarchar2(20), DISTRICT_SERIAL varchar2(20), FACILITY_ADDRESS nvarchar2(50), PEOPLE number, LAYER number, POLICE_SERIAL varchar2(20) )</pre>	
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3. 記得寫欄位別名	用 as 的方式，幫欄位加上 修改前：		

<div><pre>SELECT DISTINCT PI.POLICE_NAME , PI.POLICE_TEL FROM(     SELECT PEOPLE, POLICE_SERIAL     FROM FACILITY_INF     WHERE PEOPLE &gt; 1000) AA LEFT JOIN POLICE_INF PI ON AA.POLICE_SERIAL = PI.POLICE_SERIAL</pre></div> <div>修改後：</div> <div><pre>select distinct PI.POLICE_NAME as 轄管分局 , PI.POLICE_TEL as 分局連絡電話 from STUDENT.FACILITY_INF FI left join STUDENT.POLICE_INF PI on PI.POLICE_SERIAL = FI.POLICE_SERIAL where FI.PEOPLE &gt; 1000;</pre></div> <div><pre>select DI.DISTRICT as 村里別, FI.FACILITY_ADDRESS as 避難設施地址, FI.PEOPLE as 容人數量, PI.POLICE_NAME as 轄管分局, PI.POLICE_TEL as 分局聯絡電話 from STUDENT.FACILITY_INF FI left join STUDENT.DISTRICT_INF DI on DI.DISTRICT_SERIAL = FI.DISTRICT_SERIAL left join STUDENT.POLICE_INF PI on PI.POLICE_SERIAL = FI.POLICE_SERIAL WHERE FI.FACILITY_ADDRESS like '%中%'</pre></div> <div><pre>select FI.TYPE as 類型, DI.DISTRICT as 村里別, DI.OFFICE_ADDRESS as 村里辦公室位置, FI.FACILITY_ADDRESS as 避難設施地址, FI.PEOPLE as 容人數量 from STUDENT.FACILITY_INF FI left join STUDENT.DISTRICT_INF DI on FI.DISTRICT_SERIAL = DI.DISTRICT_SERIAL where TYPE = '公寓' or TYPE = '大樓'</pre></div>			
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4. 不建議使用子查詢	<div>在進行 table 的關聯時，不建議使用子查詢的方式，會降低效能。應改用 join 的方式將多張表關聯在一起</div> <div>修改前：</div>		

```
SELECT DISTINCT PI.POLICE_NAME , PI.POLICE_TEL
FROM(
    SELECT PEOPLE, POLICE_SERIAL
    FROM FACILITY_INF
    WHERE PEOPLE > 1000) AA
LEFT JOIN POLICE_INF PI
ON AA.POLICE_SERIAL = PI.POLICE_SERIAL
```

修改後：

```
select distinct PI.POLICE_NAME as 轄管分局 , PI.POLICE_TEL as 分局連絡電話
from STUDENT.FACILITY_INF FI
left join STUDENT.POLICE_INF PI on PI.POLICE_SERIAL = FI.POLICE_SERIAL
where FI.PEOPLE > 1000;
```

```
select DI.DISTRICT as 村里別, FI.FACILITY_ADDRESS as 避難設施地址, FI.PEOPLE as 容人數量, PI.POLICE_NAME as 轄管分局, PI.POLICE_TEL as 分局聯絡電話
from STUDENT.FACILITY_INF FI
left join STUDENT.DISTRICT_INF DI on DI.DISTRICT_SERIAL = FI.DISTRICT_SERIAL
left join STUDENT.POLICE_INF PI on PI.POLICE_SERIAL = FI.POLICE_SERIAL
WHERE FI.FACILITY_ADDRESS like '%中%'
```

```
select FI.TYPE as 類型, DI.DISTRICT as 村里別, DI.OFFICE_ADDRESS as 村里辦公室位置, FI.FACILITY_ADDRESS as 避難設施地址, FI.PEOPLE as 容人數量
from STUDENT.FACILITY_INF FI
left join STUDENT.DISTRICT_INF DI on FI.DISTRICT_SERIAL = DI.DISTRICT_SERIAL
where TYPE = '公寓' or TYPE = '大樓'
```

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5. table 前加 schema	<p>select 時，table 前加 schema，未來與多人共用資料時，造成無法抓取 table 的狀況</p> <p>修改前：</p> <pre>SELECT PEOPLE, POLICE_SERIAL FROM FACILITY_INF WHERE PEOPLE &gt; 1000) AA</pre> <p>修改後：</p> <pre>select distinct PI.POLICE_NAME as 轄管分局 , PI.POLICE_TEL as 分局連絡電話 from STUDENT.FACILITY_INF FI left join STUDENT.POLICE_INF PI on PI.POLICE_SERIAL = FI.POLICE_SERIAL where FI.PEOPLE &gt; 1000;</pre> <pre>select DI.DISTRICT as 村里別, FI.FACILITY_ADDRESS as 避難設施地址, FI.PEOPLE as 容人數量, PI.POLICE_NAME as 轄管分局, PI.POLICE_TEL as 分局聯絡電話 from STUDENT.FACILITY_INF FI left join STUDENT.DISTRICT_INF DI on DI.DISTRICT_SERIAL = FI.DISTRICT_SERIAL left join STUDENT.POLICE_INF PI on PI.POLICE_SERIAL = FI.POLICE_SERIAL WHERE FI.FACILITY_ADDRESS like '%中%'</pre> <pre>select FI.TYPE as 類型, DI.DISTRICT as 村里別, DI.OFFICE_ADDRESS as 村里辦公室位置, FI.FACILITY_ADDRESS as 避難設施地址, FI.PEOPLE as 容人數量 from STUDENT.FACILITY_INF FI left join STUDENT.DISTRICT_INF DI on FI.DISTRICT_SERIAL = DI.DISTRICT_SERIAL where TYPE = '公寓' or TYPE = '大樓'</pre>		
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6. 先把 table 合併後再篩選條件	<p>先用 join 的方式將多個 table 合併後再進行條件的篩選，不要先篩選條件後才合併，這樣有可能會把其他表中需要的資料先給篩選掉了</p> <p>修改前：</p>		

```
SELECT DISTINCT PI.POLICE_NAME , PI.POLICE_TEL  
FROM(  
    SELECT PEOPLE, POLICE_SERIAL  
    FROM FACILITY_INF  
    WHERE PEOPLE > 1000) AA  
LEFT JOIN POLICE_INF PI  
ON AA.POLICE_SERIAL = PI.POLICE_SERIAL
```

修改後：

```
select distinct PI.POLICE_NAME as 轄管分局 , PI.POLICE_TEL as 分局連絡電話  
from STUDENT.FACILITY_INF FI  
left join STUDENT.POLICE_INF PI on PI.POLICE_SERIAL = FI.POLICE_SERIAL  
where FI.PEOPLE > 1000;
```