

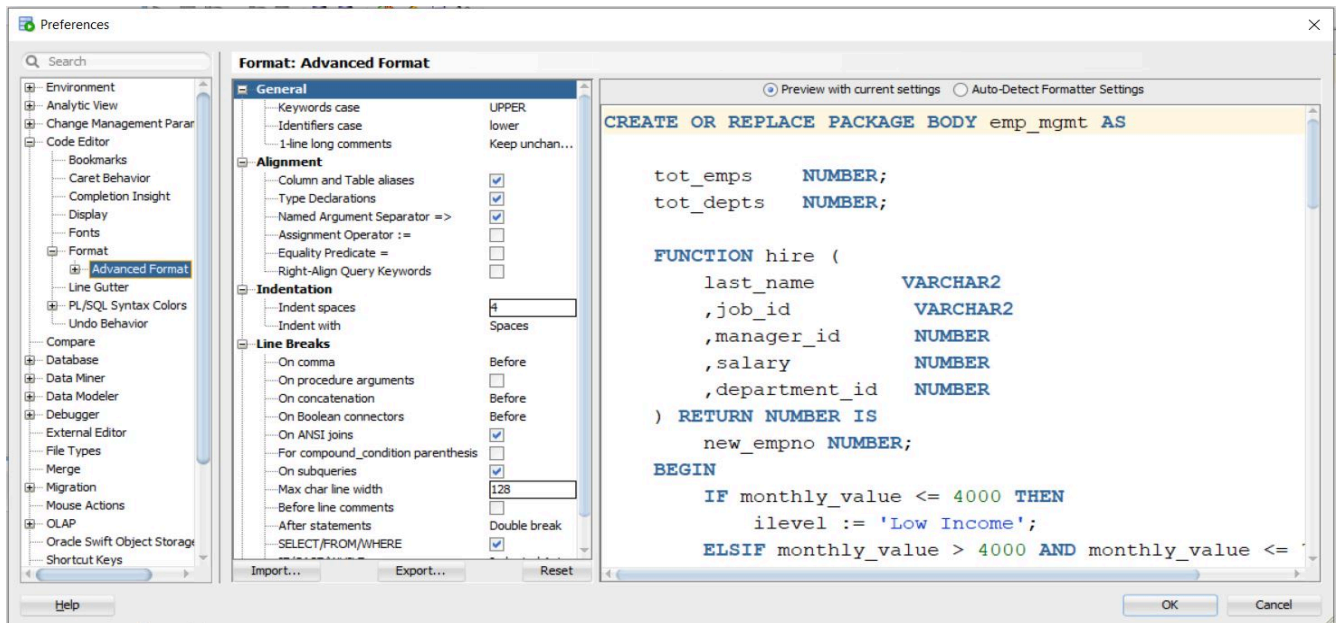


DBAS32100 Coding Conventions

Please watch the video (link at the end of this page) on Coding Conventions

There are marks allocated / deducted for not following these conventions

- **Include as comments at the top** of the query/update/procedure each of the following:
 1. the script's file name
 2. your name
 3. your Oracle user name
 4. the question/problem that you are solving
- **Format SQL statements as follows:**
 - one clause per line
 - if a line gets too wide for readability or printing, continue on the next line after indenting
 - Keywords such as "**SELECT**" should be **UPPER CASE**
 - Table/field names such as customer or custno should be **lower case**
 - When creating tables, all constraints (such as primary, foreign keys) should be defined using the **CONSTRAINT** keyword following column definitions
 - All optional keywords must be used - such as:
 - **INNER JOIN**
 - **LEFT OUTER JOIN**
 - **AS** for column alias
 - When inserting values into a table, the literals must be inserted in **UPPER CASE**. If the field has **CHECK** constraints (such as date or phone no.) the value must match the format provided under **CHECK** constraint.
 - The **FORMAT** (Ctrl-F7) function in SQLdeveloper must be used. Make sure that your Tools>Preferences>Code Editor>Format>Advanced has the "On Comma" setting set to "Before". Refer to image below:
- **Format PL/SQL blocks as follows:**
 - indent code between the **BEGIN / END** statements
 - indent code in **CURSOR** blocks
 - indent code within **LOOPS**
- **Automatic zeroes** will apply when:
 - When the incorrect schema is used
 - Output does not match the query
 - Tables are not joined - that is implicit **JOINS** missing the **WHERE** clause
 - **GROUP BY** does not contain all non-aggregate columns
- Start each query/procedure listing at the start of a new script
- Make sure that every **SELECTION** includes column headers and total records selected
- When **SELECT**-ions produce multiple pages of output, list the first three and last three records and total records selected. Include a comment where you have redacted lines and how many you have redacted.



Examples:

```
SELECT
    COUNT (*)
FROM
    hr.locations
WHERE
    country_id in(
        'US'
        , 'CA'
        , 'UK'
    );
```

```
CURSOR allmakes IS
SELECT
    upper(make)
    ,SUM(listprice)
FROM
    car
GROUP BY
    upper(make)
HAVING
    SUM(listprice) > 0;
```

[Here is a video about Coding Conventions](#)

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