

# msaSDK Module

## `.db.crud.parser`

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## Attributes

### SQLModelField module-attribute

```
SQLModelField = Union[str, InstrumentedAttribute]
```

### SQLModelListField module-attribute

```
SQLModelListField = Union[Type[SQLModel], SQLModelField]
```

## Classes

### MSASQLModelFieldParser

#### Attributes

default\_model instance-attribute

```
default_model = default_model
```

#### Functions

##### `__init__`

```
__init__(default_model: Type[SQLModel])
```

##### `conv_row_to_dict`

```
conv_row_to_dict(  
    rows: Union[Row, List[Row]]
```

```
) -> Union[None, Dict[str, Any], List[Dict[str, Any]]]
```

| sqlalchemy row to dict

## filter\_insfld

```
filter_insfld(
    fields: Iterable[Union[SQLModelListField, Any]],
    save_class: Tuple[type] = None,
) -> List[Union[InstrumentedAttribute, Any]]
```

## get\_alias

```
get_alias(
    field: Union[Column, SQLModelField, Label]
) -> str
```

## get\_column

```
get_column(field: SQLModelField) -> Optional[Column]
```

| sqlalchemy Column

## get\_insfld

```
get_insfld(
    field: SQLModelField,
) -> Optional[InstrumentedAttribute]
```

## get\_modelfield

```
get_modelfield(
    field: Union[ModelField, SQLModelField],
    deepcopy: bool = False,
) -> Optional[ModelField]
```

| pydantic ModelField

## get\_name

```
get_name(field: InstrumentedAttribute) -> str
```

## get\_row\_keys

```
get_row_keys(row: Row) -> List[str]
```

sqlalchemy row keys

### get\_select\_keys

```
get_select_keys(stmt: Select) -> List[str]
```

sqlalchemy select keys

### get\_sqlmodel\_insfld

```
get_sqlmodel_insfld(  
    model: Type[SQLModel],  
) -> List[InstrumentedAttribute]
```

Excluding the relationship field

## Functions

### get\_python\_type\_parse cached

```
get_python_type_parse(  
    field: Union[InstrumentedAttribute, Column]  
) -> Callable
```

This function returns a cached instance of the Python Type Callable object.

#### Note

Caching is used to prevent re-reading the environment every time the object is used.

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