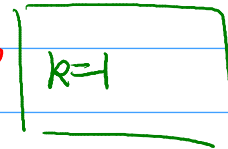


→ data ibr ./undo_001 undo 269 272

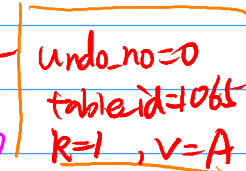
```
UndoRecord {  
  addr: 0x0110@(272),  
  undo_rec_hdr: UndoRecordHeader {  
    addr: 0x0110@(272),  
    prev_rec_offset: 0,  
    next_rec_offset: 285,  
    type_info: INSERT_REC,  
    cpl_info: [],  
    extra_flags: [],  
  },  
  undo_rec_data: Insert(  
    UndoRecForInsert {  
      addr: 0x0113@(275),  
      undo_no: 0,  
      table_id: 1065,  
      key_fields: [  
        UndoRecKeyField {  
          addr: 0x0116@(278),  
          sequence: 0,  
          key_len: 4,  
          key_data: b"\x80\0\0\0",  
        },  
      ],  
    },  
  ),  
}
```

Insert U(1), P(269), B(272)



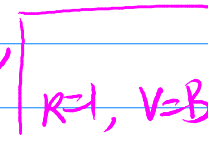
roll_ptr

update U(2), P(284), B(337)

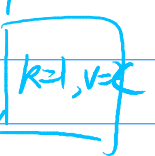


update, U(1), P(287), B(337)

roll_ptr



Rec.



roll_ptr

337

→ data ibr ./rtc/t.ibd dump 4

```
***** Row 1 *****  
k => I32(1)  
DB_TRX_ID => TrxId(0x0000000000d20)  
DB_ROLL_PTR => RbPtr(RollPtr { value: 0x020000011c0151, insert: F, rseg_id: UndoSpace(2), page_no: 284, boffset  
v => Str("B")
```

→ data ibr undo_002 undo 284 337

```
UndoRecord {  
  addr: 0x0151@(337),  
  undo_rec_hdr: UndoRecordHeader {  
    addr: 0x0151@(337),  
    prev_rec_offset: 0,  
    next_rec_offset: 369,  
    type_info: UPD_EXIST_REC,  
    cmpl_info: [NO_ORD_CHANGE],  
    extra_flags: [CMPL_INFO_MULT, MODIFY_BLOB],  
  },  
  undo_rec_data: Update(  
    UndoRecForUpdate {  
      addr: 0x0154@(340),  
      new1byte: 0,  
      undo_no: 0,  
      table_id: 1065,  
      info_bits: 0,  
      trx_id: 3359,  
      roll_ptr: RollPtr {  
        value: 0x810000010d0110,  
        insert: T,  
        rseg_id: UndoSpace(1),  
        page_no: 269,  
        boffset: 272,  
      },  
      key_fields: [  
        UndoRecKeyField {  
          addr: 0x0166@(358),  
          sequence: 0,  
          key_len: 4,  
          key_data: b"\x80\0\0\x01",  
        },  
      ],  
      n_fields: 1,  
      upd_fields: [  
        UndoRecUpdatedField {  
          addr: 0x016c@(364),  
          sequence: 0,  
          field_no: 3,  
          field_len: 1,  
          field_data: b"A",  
        },  
      ],  
    ),  
  },  
}  
→ data
```

→ data ibr undo_001 undo 287 337

```
UndoRecord {  
  addr: 0x0151@(337),  
  undo_rec_hdr: UndoRecordHeader {  
    addr: 0x0151@(337),  
    prev_rec_offset: 0,  
    next_rec_offset: 368,  
    type_info: UPD_EXIST_REC,  
    cmpl_info: [NO_ORD_CHANGE],  
    extra_flags: [CMPL_INFO_MULT, MODIFY_B],  
  },  
  undo_rec_data: Update(  
    UndoRecForUpdate {  
      addr: 0x0154@(340),  
      new1byte: 0,  
      undo_no: 0,  
      table_id: 1065,  
      info_bits: 0,  
      trx_id: 3360,  
      roll_ptr: RollPtr {  
        value: 0x020000011c0151,  
        insert: F,  
        rseg_id: UndoSpace(2),  
        page_no: 284,  
        boffset: 337,  
      },  
      key_fields: [  
        UndoRecKeyField {  
          addr: 0x0165@(357),  
          sequence: 0,  
          key_len: 4,  
          key_data: b"\x80\0\0\x01",  
        },  
      ],  
      n_fields: 1,  
      upd_fields: [  
        UndoRecUpdatedField {  
          addr: 0x016b@(363),  
          sequence: 0,  
          field_no: 3,  
          field_len: 1,  
          field_data: b"B",  
        },  
      ],  
    ),  
  },  
}  
→ data
```

ReadView
creator txid = 2

